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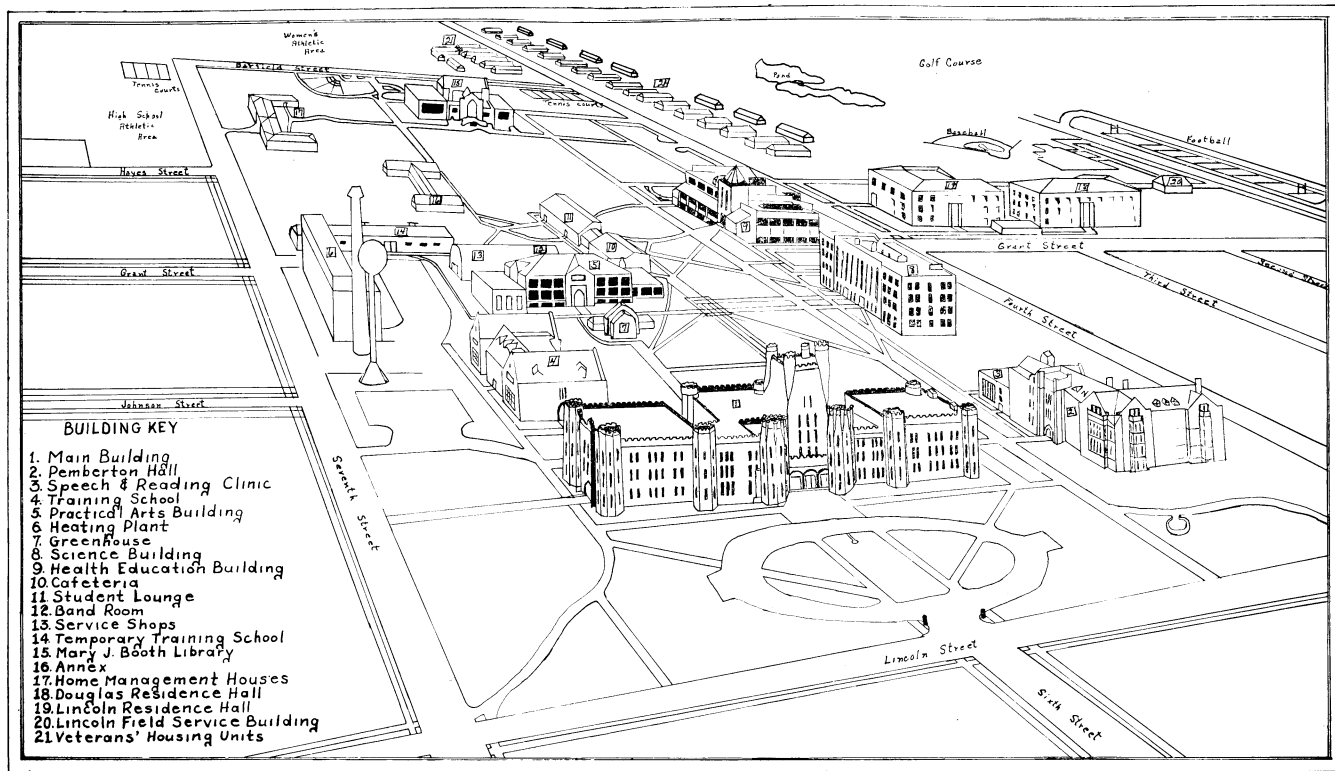
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Summer
Session
1953

**EASTERN ILLINOIS STATE COLLEGE
BULLETIN**



STATE OF ILLINOIS

• WILLIAM G. STRATTON, Governor

EASTERN ILLINOIS STATE COLLEGE BULLETIN

No. 201

January 1, 1953



53d SUMMER TERM

June 15 - August 7

Eastern Illinois State College Bulletin, issued quarterly, by the Eastern Illinois State College, Charleston, Illinois. Entered March 5, 1902, as second-class matter, at the post office at Charleston, Illinois. Act of Congress, August 24, 1912.

COLLEGE CALENDAR

SUMMER TERM, 1953

Monday, June 15.....Registration, 8 a. m.
Tuesday, June 16.....Class Work Begins, 7:30 a. m.
Monday and Tuesday, July 6 and 7.....Education
Conference and Exhibit
Tuesday and Wednesday, July 7 and 8.....Conference
sponsored by Illinois Congress of Parents and Teachers
Thursday, August 6, 8 p. m.....Summer Commencement
Friday, August 7.....Summer Term Closes
Monday, August 10 to Friday, August 28.....Off-Campus Workshops
Wednesday through Friday, September 9-11.....Freshman Orientation
Saturday, September 12.....Fall Quarter Registration

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THE TEACHERS COLLEGE BOARD

EX-OFFICIO MEMBERS

Dr. VERNON L. NICKELL
Superintendent of Public Instruction, Springfield

Dr. JOSEPH POIS
Director of Finance, Springfield

APPOINTED MEMBERS

ROYAL A. STIPES, JR., Champaign.....	1951-53
JACK AUSTIN, Charleston.....	1951-53
MRS. WILLIAM R. HARRIS, Macomb.....	1951-53
DR. LESTER O. SCHRIVER, Peoria.....	1951-55
LEWIS M. WALKER, Gilman.....	1951-55
DR. NOBLE J. PUFFER, Chicago.....	1951-55
JOSEPH F. BOHRER, Bloomington.....	1951-57
DR. WILLIAM C. REAVIS, Chicago.....	1951-57
WILLIAM W. WIRTZ, DeKalb, <i>Chairman</i>	1951-57

DR. RICHARD G. BROWNE, *Executive Officer*, Springfield
CHARLES G. LANPHIER, *Secretary*, Springfield

The Teachers College Board was "created to operate, manage, control and maintain the Illinois State Normal University at Normal, the Northern Illinois State Teachers College at DeKalb, the Eastern Illinois State College at Charleston, and the Western Illinois State College at Macomb" by House Bill Number 992, 67th General Assembly, State of Illinois, 1951.

EASTERN ILLINOIS STATE COLLEGE CHARLESTON

FACULTY SUMMER TERM

(Date of joining staff in parentheses)
(Asterisk (*) indicates head of the department)

Administration

Robert Guy Buzzard, Ph.D.....President (1933)
Hobart Franklin Heller, Ph.D.....Dean (1931)
Rudolph D. Anfinson, Ph.D.....
.....Dean of Men and Director of Veterans Services (1940)
Elizabeth K. Lawson, Ph.D.....Dean of Women (1939)
Blanche C. Thomas.....Registrar (1922)
Raymond R. Gregg, A. M.....Business Manager (1934)
Harry Louis Metter, Ph.D.....
.....Director of Teacher Training (1934)
Ernest Herbert Campbell, Ed.D....Principal, High School (1952)
Arthur U. Edwards, Ph.D....Principal, Elementary School (1937)
Bryan Heise, Ph.D.....
.....Director of Extension and Summer Session (1937)
William Henry Zeigel, Ph.D.....
.....Director of Teacher Placement and Admissions (1937)
Arthur F. Byrnes, Ed.D....Director of Audio-Visual Center (1949)
Roscoe Frederick Schaupp, Ph.D.....Librarian (1945)
Hans C. Olsen, Ph.D.....Director of Rural Education (1938)
Stanley M. Elam, A. M.....
.....Director of Public Relations and Alumni Services (1946)
Robert Rodin, M.D.....College Physician (1952)
Mary Ellen Thompson, R. N.....College Nurse (1930)
Mary June Bland, R. N.....College Junior Nurse (1949)
Carolyn Gilbert Ryle, M. N.....Health Coordinator (1952)
Ruth Henderson Gaertner, M. S...Director of Food Services (1947)
Maryann Ehrhardt, M.S. in Ed...Director of Pemberton Hall (1952)
LaNeta Vanlou Patton, M.S. in Ed...Director of Lincoln Hall (1952)
Donald A. Kluge, M.A.....Director of Douglas Hall (1952)
Carol Eunice Peterson, B.S.I. Mgt.....
.....Dietician in Lincoln and Douglas Halls (1952)
Elizabeth Wilson, M.S...Director, Home Management House (1952)
Henry J. Arnold, A. M.....Manager, Textbook Library (1935)
Gerald Tyson Cravey, B.S. and M.E.....
.....Superintendent of Plant Maintenance (1951)

Camille F. Monier.....Superintendent of Grounds (1935)
 Edgar B. Rennels.....Superintendent of Buildings (1942)
 John Livingston.....Superintendent of Heating (1918)
 Violet Bird Taylor, B.A.....Finance Clerk (1935)
 Dorothy Virginia Davis.....Secretary (1937)
 Florence Leone Fair, A.B.....Secretary (1940)
 Helen Josephine Whalen.....Secretary (1942)
 Norma Jean Winkleblack.....Secretary (1948)
 Dorothy Mae Beck.....Secretary (1948)
 Helen Marie Moltz.....Secretary (1949)
 Margaret J. McGurty.....Secretary (1949)
 Joy CarlisleStenographer (1949)
 Betty Jean Story.....Clerk-Typist (1949)
 Florence Eileen Kelly.....Clerk-Typist (1950)
 Evelyn Lucille Roby.....Secretary (1950)
 Mildred Miller Rea.....Clerk-Typist (1950)
 Marcia Jean Levitt.....Secretary (1951)
 Leyla Jane Peck.....Clerk-Typist (1951)
 Doris Lorrene Pilson.....Stenographer (1951)
 Joan Catharine Madden, B.S. in Ed.....Secretary (1951)
 Catherine Marie Smith.....Stenographer (1952)
 Patricia Florina Barche.....Stenographer (1952)
 Doris Constance Kirchberg.....Clerk-Typist (1952)

Art

Mildred Ruth Whiting, Ph.D.*.....Professor (1936)
 Gifford Clyde Loomer, Ph.D.....Assistant Professor (1951)
 Lynn Edgar Trank, M.F.A.....Assistant Professor (1952)

Biological Science

Botany

Ernest Lincoln Stover, Ph.D.*.....Professor (1923)
 Hiram Frederick Thut, Ph.D.....Professor (1932)

Zoology

Walter Merritt Scruggs, Ph.D., Pd.D.*.....Professor (1929)
 Harry Edward Peterka, Ph.D.....Associate Professor (1947)
 Garland Tavner Riegel, Ph.D.....Associate Professor (1948)
 Verne B. Kniskern, Ph.D.....Associate Professor (1950)

Business Education

James Michael Thompson, Ed.D.*.....Professor (1937)
 Earl Samuel Dickerson, Ed.D.....Professor (1935)
 Clifford Lawrence Fagan, Ph.D.....Associate Professor (1949)
 Jessie Martha Hunter, M.A.....Assistant Professor (1937)

Education

Harry Louis Metter, Ph.D.....Professor (1934)
 Bryan Heise, Ph.D.....Professor (1937)
 William Henry Zeigel, Ph.D.....Professor (1937)

Hans Christian Olsen, Ph.D.....Professor (1938)
 Elizabeth Knight Lawson, Ph.D.....Professor (1939)
 Rudolph Donald Anfinson, Ph.D.....Professor (1940)
 Donald Allen Rothschild, Ph.D.....Associate Professor (1934)
 Arthur Usher Edwards, Ph.D.....Associate Professor (1937)
 Thomas Arthur Phillips, Ed. D.....Associate Professor (1948)
 Arthur Francis Byrnes, Ed. D.....Associate Professor (1949)
 J. Sherrick Fisher, Ph. D.....Associate Professor (1951)
 Ernest Herbert Campbell, Ed. D.....Associate Professor (1952)
 Donald Lewis Moler, Ph.D.....Assistant Professor
 and Director of Reading Clinic (1951)

English

Howard DeForest Widger, Ph.D.*.....Professor (1912)
 Eugene M. Waffle, Ph.D.....Professor (1926)
 Ruth Huff Cline, Ph.D.....Associate Professor (1947)
 Judd Kline, Ph.D.....Associate Professor (1948)
 Merrilie Mather, Ph.D.....Assistant Professor (1951)

Foreign Language

Kevin Joseph Guinagh, Ph.D.*.....Professor (1931)

Geography

Byron Kurtz Barton, Ph.D.*.....Professor (1948)
 Rose Zeller, Ph.D.....Professor (1930)
 Albert Warren Brown, D.S.Sc.....Assistant Professor (1952)

Health Education

Harold Maxon Cavins, Ed.D.*.....Professor (1928)
 Harland Allan Riebe, Ed.D.....Associate Professor (1950)

Home Economics

Helen Louise Devinney, A.M.....Assistant Professor (1943)
 Elizabeth Wilson, M.S.....Instructor (1952)

Industrial Arts

Walter Allen Klehm, Ed.D.*.....Professor (1938)
 Harry Gunderson, Ed.D.....Associate Professor (1948)
 Glenn Spenser Duncan, Ed.D.....Associate Professor (1950)
 Charles Arthur Elliott, M. Ed.....Assistant Professor (1946)

Library

Roscoe Frederick Schaupp, Ph.D.*.....
Professor and Librarian (1945)
 Harriet Love, M.S.....Assistant Professor (1932)
 Margaret Lorena Ekstrand, A.M. in L.S.. Assistant Professor (1942)
 Mary Elizabeth Scott, M.S.....Assistant Professor (1948)
 James Glenn Eberhardt, M.S. in L.S.... Assistant Professor (1949)
 Lee Anna Jewell Smock, A.M.....Instructor (1944)
 Benjamin Morgan Lewis, A.M. in L.S.....Instructor (1951)

Mathematics

Lawrence Albert Ringenberg, Ph.D.*.....Professor (1947)
Hobart Franklin Heller, Ph.D.....Professor (1931)
David John Davis, Ph.D.....Associate Professor (1950)

Music

Leo J. Dvorak, Ph.D.*.....Professor (1940)
Earl Woodrow Boyd, Ph.D.....Associate Professor (1947)
John Louis Rezatto, Ed.D.....Associate Professor (1951)
Ethel Irene Hanson, A.M.....Assistant Professor (1927)
Catherine Anne Smith, M.M.....Instructor (1949)

Physical Education

Men

John William Masley, D.Ed.....Professor (1952)
William Albert Healey, D.P.E.....Associate Professor (1946)
Clifton Washington White, D.Ed.....Associate Professor (1947)
William Holland Groves, Ph.D.....Assistant Professor (1951)

Women

Juana de Laban, Ph.D.....Assistant Professor (1952)
Dorothy Mae Hart, M.S.....Instructor (1947)
Charlotte LaVerne Lambert, M.A.....Instructor (1949)

Physical Science

Chemistry

Lawson Francis Marcy, Ph.D.....Associate Professor (1944)
Melvin Orville Foreman, Ph.D.....Associate Professor (1946)
Sidney Russell Steele, Ph.D.....Associate Professor (1947)

Physics

Glenn Quentin Lefler, Ph.D.*.....Professor (1946)
Irvin Lee Sparks, Ph.D.....Associate Professor (1951)

Social Science

Charles Hubert Coleman, Ph.D.*.....Professor (1926)
Glenn Huron Seymour, Ph.D.....Professor (1929)
Kevin Joseph Guinagh, Ph.D.....Professor (1931)
Donald Rhodes Alter, Ph.D.....Associate Professor (1934)
William Gerbing Wood, Ph.D.....Associate Professor (1938)
Raymond Arthur Plath, Ph.D.....Associate Professor (1946)
William D. Miner, Ph.D.....Associate Professor (1950)

Speech

James Glenn Ross, Ph.D.*.....Professor (1934)
McKenzie William Buck, Ph.D.....Assistant Professor (1951)
Henry Lee Ewbank, Jr., Ph.D.....Assistant Professor (1951)
William R. Johnson, A.M.....Assistant Professor (1952)
Earl Phipps Bloom, A.M.....Assistant Professor (1952)

TRAINING SCHOOLS

Training Schools

Harry Louis Metter, Ph.D.*.....
.....Director of Teacher Training (1934)

Elementary School

Arthur Usher Edwards, Ph.D.....Principal (1937)
Maurice Harlan Stump, A.M.....Instructor
.....and Seventh Grade Training Teacher (1952)
Lorene Elizabeth Ziegler, M.A.....Assistant Professor
.....and Sixth Grade Training Teacher (1947)
Wallace K. Hollander, M.Ed.....Instructor
.....and Fifth Grade Training Teacher (1952)
Myrtle Arnold, A.M.....Assistant Professor
.....and Fourth Grade Training Teacher (1930)
Nannilee Saunders, A.M.....Assistant Professor
.....and Third Grade Training Teacher (1935)
Velma V. Cox, M.Ed.Instructor
.....and Second Grade Training Teacher (1948)
Phyllis Smith, A.M.Instructor
.....and First Grade Training Teacher (1953)

THE SUMMER TERM

I. GENERAL INFORMATION

PLAN

The summer term includes an eight weeks session for its principal course offerings, several three weeks courses both on campus and in extension, and field study courses.

The courses are planned for professional improvement of teachers in service and for the needs of regular campus students who wish to take extra courses or who are following accelerated programs.

Courses are offered for graduates and undergraduates. A description of the plan for the Master's degree is included in this bulletin.

ADMISSION

(a) Admission of Undergraduates*

Persons who hold teachers certificates in the State of Illinois are admitted to the summer term to take courses for which they have satisfied prerequisites.

Graduates of recognized four-year high schools who have not attended other colleges may be admitted to take courses in the summer term upon filing an application for admission, including a transcript of high school grades. Application forms may be secured by writing to the Registrar. Applications should be filed at least ten days before the opening of the term.

Students who have attended other colleges and who wish to work only in the summer term may be admitted by providing a statement of good standing from the college last attended. Transfer students who plan to continue their residence during a regular college year must file a regular application for admission and provide transcripts from all colleges previously attended.

Transfer students who are not in good standing in the college last attended may be admitted on the same terms on which they would have been readmitted to the college last attended. If admitted, they must make a C average at the end of the first term in order to be permitted to continue.

Students who have not cleared their entrance requirements completely before June 26 are not permitted to continue in attendance.

* See Special Instructions for New Students on page 26.

(b) Admission of Graduates

Admission to take courses is granted to a graduate with a Bachelor's degree earned in a curriculum of at least 120 semester hours in an approved college. Admission to courses does not imply admission to candidacy for the Master's degree.

A student who wishes to take graduate courses without becoming a candidate for the Master's degree must file with the Registrar an application together with a letter from the Registrar of his undergraduate college certifying his Bachelor's degree.

A student who expects to apply for admission to candidacy for the Master's degree must file an application together with complete transcripts of undergraduate work.

All credentials should be filed with the Registrar of the College at least thirty days prior to registration.

Application blanks may be secured by writing to the Registrar.

Admission to candidacy for the degree, M.S. in Ed., is subject to the following additional conditions:

1. If the Bachelor's degree was earned at another institution the applicant must submit evidence that he has had substantial equivalents of the courses in education and practice teaching required for the degree, B.S. in Ed., in Eastern Illinois State College. Usually, one who holds a regular teachers certificate valid in Illinois can meet this requirement.

2. The student must petition the Committee on Candidacy for admission to candidacy. The petition must be sponsored by the student's adviser. It must contain a proposed program of courses totaling at least 48 quarter hours selected in accordance with the General Plan of Studies (See page 20).

3. Admission to candidacy will result from:

- a. Approval of the petition by the Committee, or acceptance by the student of a modified program prescribed by the Committee, together with:
- b. The completion of 12 quarter hours of courses of the approved program, with grades that average B.

The Committee on Candidacy in its consideration of the petition has the authority:

To approve, or to reject, the petition.

To prescribe additional courses for students whose undergraduate record shows standing in the lowest third of the class or, in the case rank cannot be determined, grades averaging below 1.5.

To prescribe supplementary courses for students whose undergraduate courses and proposed course program seem inadequate preparation for the career.

To demand supporting evidence of the possession of desirable personal qualities of a teacher.

Failure to secure admission to candidacy prior to beginning the final 24 quarter hours of a proposed program for the Master's degree is considered equivalent to rejection of candidacy.

EXPENSES

Fees.—Tuition is free to legal residents of Illinois. Tuition of \$15 a term is charged others in addition to the fees described below.

Fees for an eight week term are as follows:

Registration Fee	\$ 15.00
Student Activity Fee.....	\$ 6.50
	<hr/>
	\$ 21.50
Textbook Rent paid by all students.....	\$ 3.50
Fees for three-week campus workshop.....	\$ 14.00
Fees for three-week off-campus workshop.....	\$ 14.00

Miscellaneous Fees.—A graduation fee of \$10 is charged students at the time of graduation. This fee covers graduation expenses, including rental of cap and gown. It is payable on April 1 preceding Spring Commencement or July 1 preceding Summer Commencement.

A matriculation fee of \$5.00 is charged a graduate student at the time of his first registration for graduate courses unless he holds a Teachers College or a Military Scholarship.

Laboratory fees are charged for certain courses in the sciences, art, home economics, business education, industrial arts, and music. A chemistry breakage fee of \$3.00 is required for students taking laboratory courses in chemistry. The unused portion of this fee is refunded at the close of the term.

A locker deposit of \$1.75 is required for each locker used by a student. The fee is refunded when the padlock is returned at the end of the term.

A total deposit of \$2.00 is required of each student enrolled in physical education. One dollar of this amount is refunded when the towel is returned.

A fee of \$7.50 is charged for each applied music course taken by any student except those whose major or minor is in music.

A music instrument fee of \$1.00 is charged music students enrolled in class methods courses.

A housing deposit of \$10.00 is required of all applicants for housing in college-owned apartments, trailers, and dormitories. This deposit will be held as a guaranty against destruction or loss of college property. When occupancy ceases and all property and damage are satisfactorily accounted for the deposit is refunded in whole or in part.

The original transcript of a student's record with one carbon copy will be mailed upon request without cost to the student; a charge of \$1.00 is made for each additional copy of this transcript sent later.

Board and Room.—Room rent in private homes ranges from \$3.50 to \$4.00 per week for each student when two students share a room.

The College Cafeteria serves meals at moderate cost. Several rooming houses have provisions for light housekeeping for students who prefer this arrangement.

Penalties.

Late registration.—An additional fee of \$3.00 is charged for failure to complete registration on Monday, June 15.

Change of program.—A fee of \$1.00 is charged for a change of program after Wednesday, June 17.

Use of library.—For failure to return books, pictures, and magazines to the College Library before scheduled time a fine of 50 cents is charged and must be paid before a student's record for the term is clear.

Textbook library.—For failure to return all books in good condition at the end of the term a fee of \$1.00 plus the cost of the book damaged or lost is charged.

No credits for the term are issued until the textbook library and college library accounts are cleared.

Refund of fees.—If a student withdraws on or before the tenth calendar day after registration day and if the Registrar has been informed in person or by letter at the time of withdrawal, fees may be refunded.

SCHOLARSHIPS

Lindly Scholarships are accepted to a total of twelve quarters or terms of residence. Holders of such acceptable scholarships do not pay the registration fee.

The holder of a **Teachers College Scholarship** must present his scholarship at the beginning of the term. The scholarship covers registration fee and student activity fee not to exceed \$120 in any one calendar year, and not more than \$360 in total.

Any person who served in the armed forces of the United States during World War I or between September 16, 1940, and the termination of the national emergency proclaimed by the President on December 16, 1950, who at the time of entering such service was a resident of Illinois and has been honorably discharged from such service and who possesses all necessary entrance requirements may be awarded a scholarship to any of the four State colleges, Southern Illinois University, and the University of Illinois.

This **Military Scholarship** covers registration and student activity fees at Eastern Illinois State College but it does not cover laboratory fees, book rental, fees for supplies and materials, and other miscellaneous fees. The Military Scholarship may be secured by filing a photo-static copy of the discharge or separation papers with the Director of Veterans Services.

TRAINING UNDER PUBLIC LAWS 346, 16, AND 550

Veterans may enroll for training under Public Laws 346, 16, or 550 during the summer term. Applications are processed by the Office of the Veterans Services at the College.

HOUSING ACCOMMODATIONS

Due to a rehabilitation program, Pemberton Hall will not be open during the summer term. Rooms may be reserved in Lincoln Hall, for women, or in Douglas Hall, for men. The dining rooms in these dormitories will be in operation. Reservations accompanied by a deposit of \$10.00 may be made by writing to the Director of either dormitory. Deposits will be refunded if a reservation is cancelled two weeks or more before the opening of the summer term.

Rates including meals Monday through Friday are \$11.50 per week when two occupy a room; \$12.50 per week when one person occupies a room. The dining rooms will not be open on Saturday or Sunday, but if there is sufficient demand the College Cafeteria will serve week-end meals.

Students other than those who live in the dormitories are required to live in houses approved by the Housing Committee. Lists of approved accommodations may be obtained from the Dean of Women and the Dean of Men.

A trailer camp and apartments are operated by the College for married veterans. Students interested should write to the Director of Veterans Services.

LIBRARY

The Booth Library contains approximately 77,655 books and pamphlets, 600 magazines, and many daily newspapers.

The Training School Library is in charge of a children's librarian and is open to summer school students. Here are collected more than 9,200 books suited to the needs of the elementary school and the junior high school. For those who wish to obtain titles of books for school libraries, lists selected by those familiar with children's books are provided and conferences with the librarian are arranged.

Exhibits are on display in the Training School Library and are changed weekly in order that a variety of materials may be called to the special attention of visitors.

THE PAUL TURNER SARGENT ART GALLERY

The Paul Turner Sargent Art Gallery in the Booth Library brings to the campus exhibitions selected from among the various areas of the visual arts. These shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles—each collection on display usually

for a three-week period. Special lectures and films related to the exhibitions are scheduled from time to time. This expansion of the Department of Art provides important original works for study in the art classes.

The gallery is named for the late Paul Turner Sargent, an alumnus of the College and a painter well known for his landscape work. Hours are 2:00-5:00 Monday through Thursday, 3:00-5:00 Sunday, 7:00-9:00 Monday and Wednesday evenings. Arrangements for school groups may be made for other hours. The gallery is open to the public and a calendar of the shows may be secured by writing to the Department of Art.

THE FRANKLYN L. ANDREWS MUSIC ROOM

The Franklyn L. Andrews Recorded Music Room is a part of the recreational and cultural facilities made available to students in Booth Library. The room was named in memory of the late Franklyn L. Andrews, a member of Eastern's English Department from 1929 until his death in 1944.

Three small individual listening rooms adjoin the large listening room which houses the record collection and in which regularly scheduled programs are presented.

Included in the record collection are symphonic music, complete and unabridged operas, choral music, art songs, folk music, dramatic selections, anthologies of ancient music, and collections of jazz, swing, musicales, and light opera.

New additions are made to the collection periodically.

The Andrews Room is open from 2:00-5:00 p.m. Monday through Friday and from 7:00-9:00 p.m. Monday through Thursday.

BUREAU OF TEACHER PLACEMENT

The College maintains a Bureau of Teacher Placement with offices in the Main Building. Students who have attended this institution for one year or more may register with the Bureau. Registration is prerequisite to graduation from the College. The services of the Bureau are free to students enrolled in the College. Alumni are charged a registration fee of \$1.00.

From carefully compiled records the Bureau furnishes to a prospective employer the academic, student teaching, extra-curricular, and experience records of an applicant, together with personal data, photograph, and copies of letters of recommendation. Interviews between employers and applicants may be held in the conference rooms of the Bureau.

The interest of the Bureau is continued after placement through a system of follow-up reports from employers.

OBSERVATION IN THE TRAINING SCHOOLS

A limited opportunity is offered during the first six weeks for observation in the first seven grades of the Training School by students who are not regularly enrolled in student teaching courses. Permission to observe in the Training School must be obtained from the Director of Teacher Training.

A modern one-teacher school is operated on the campus to provide special opportunities for observation.

II. SUMMER SCHOOL ACTIVITIES

FIELD STUDIES PROGRAM

During the three weeks immediately following the close of the summer session the Geography and Social Science Departments will conduct a three-week field trip through Northern United States and Southern Canada. Undergraduate and graduate credit of four quarter hours may be earned either in the regional geography of North America or the regional history of North America.

The route extends north from Charleston through Wisconsin and Minnesota into Canada west of Lake Superior thence eastward through Ontario to the eastern end of Lake Ontario. The return to Charleston will be made via Niagara Falls and the industrial areas of western Pennsylvania and eastern Ohio. Some points of interest include Wisconsin Dells, the iron mines of the Mesabi Range, the locks and canal at Sault Ste. Marie, Michigan, the Sudbury, Ontario mining district, Old Fort Henry, Kingston, Ontario and the Thousand Islands.

The approximate cost of the trip is \$170.00, which includes transportation, lodging and admission fees. Buses are used; overnight stops are made at hotels and motels. The trip begins August 6 and the group returns to Charleston on August 23.

For further information concerning the field studies program write to Dr. B. K. Barton, Department of Geography, Eastern Illinois State College, Charleston, Illinois.

RECREATIONAL ACTIVITIES

The summer school committee provides a program of recreational activities which it is hoped will offer something of interest and value to each student. Motion pictures, intramural games, excursions, picnics, discussion groups and other organized activities are features of the program. The campus provides many opportunities for individually organized games, and the proximity of Fox Ridge State Park and Lincoln Log Cabin Park give additional facilities for student recreation. Students are invited to submit suggestions for enriching the program.

PHYSICAL EDUCATION

A broad program of physical education activities is made available to both men and women in the summer term. It includes voluntary activities and intramural contests as well as regular physical education classes. Voluntary activities may include badminton, softball, tennis, archery, golf, horse-shoes, shuffleboard and other games, and daily sessions in physical fitness exercises designed to improve health and posture. Students who plan programs of voluntary activities may arrange for one to four hours per week in activities of their choice. Regular physical education classes meet three hours each week with approximately half of the time devoted to physical fitness exercises and the remainder to sports.

The physical education program is planned to provide maximum benefit to all students who wish to participate, and every student who is not physically disabled is urged to plan for regular periods of activity whether or not it is required.

The residence requirement in physical education is given on page 25 and the graduation requirement in physical education is given on page 24.

ART ACTIVITIES WORKSHOP

(June 29 - July 17)

A three-week workshop has been planned to bring to teachers more extensive help in art education, materials and techniques, to meet the increased use of art in schools.

Two outstanding speakers will be on campus during the workshop to point up current developments in art education.

The exhibitions in the Sargent Gallery are planned in relation to the entire summer program in art. Students are invited to visit the Gallery often and to attend showings of films and film strips on art.

WORKSHOP IN BAND AND CHORAL MUSIC

(June 29 - July 17)

A three-week workshop for directors of public school bands and choruses will be a special feature of the Summer Term.

The first week will be devoted to a survey of materials, rehearsal techniques, score reading, problems of administration and problems of group development. Materials for bands, wind ensembles, choruses and solo medium will be included. Opportunity for specialized coaching in oboe, flute, bassoon, clarinet, and voice will be available.

In the second week a nationally known band director will have charge of a full symphonic band made up of high school students. A selected group of students from the high schools of the area will be invited to form this band. Rehearsals will be open for observation

to college students and visiting directors; the band will read new materials and demonstrate band building techniques. The guest-conductor will lecture and discuss problems of the band ensemble.

In the third week a chorus of high school students will be in session under the direction of a nationally known choral director. Students from the area will form this chorus, and students and directors are encouraged to sing together. Rehearsals will be designed for observation of choral techniques and are open to college students and music directors.

Directors of school bands or choruses may enroll for credit in Music 450, Advanced Conducting and Materials in Music, for either undergraduate or graduate credit. Special attention will be placed on individual needs of the teacher so that pertinent assistance and information is given for his particular position. While the high school groups are in session, flexibility in the schedule will make it possible for the director to pursue his special interests.

Further information may be obtained by writing to Dr. L. J. Dvorak, Head of the Department of Music.

HIGH SCHOOL STUDENT BAND AND CHORUS

Purpose. It is the intent to provide an opportunity for high school students to participate in organizations of a high degree of proficiency so that worthy educational experiences may be realized. High school students, with the recommendation of their school authorities, are invited to participate in the Band or in the Chorus. Certain students may have abilities and interests in both and may elect both. Nationally known directors will be the conductors.

Calendar of Events. The Band will assemble on July 6. As a finale to the week's work, a concert, open to the public, will be presented on Sunday afternoon, July 12, at 3 p.m.

The Chorus will assemble on July 13. As a finale to the week's work, a concert, open to the public, will be presented on Sunday afternoon, July 19, at 3 p.m.

Program of Activities. *Rehearsals* will be held for one hour and a half each morning and afternoon. Materials will be selected so as to be of special interest to high school students.

Sectional meetings will be arranged in order to give special instruction for all students.

A Music Listening class is designed to enlarge the musical experiences of the student.

Essentials of Music, a class for all students, will be designed to furnish a foundation for all music.

Recreational Activities will include golf, tennis, swimming, picnics, hiking, parties, and dancing.

Cost and Housing. There is no registration fee for high school students. The charge for board and room is \$14.50 per week. Housing

will be in Douglas Hall for boys and Lincoln Hall for girls. The dormitories will be in charge of the regular college staff.

Further information may be obtained by writing to Dr. L. J. Dvorak, Head of the Department of Music.

MUSIC ACTIVITIES

Band and chorus are conducted as extra-curricular activities. The band rehearses at 7:30 each Monday evening and presents an outdoor concert on the last Tuesday evening of the Summer Term. The chorus will rehearse each Tuesday afternoon at 2:30.

Special musical programs will be presented at intervals throughout the summer; the student body and the public are invited to attend.

Students are invited to make use of the Listening Room in the Main Building, Room 44, for listening purposes in connection with music classes.

EDUCATION CONFERENCE

The eighteenth annual summer education conference and exhibit and the regional conference of the Illinois Congress of Parents and Teachers will be held on July 6, 7, and 8. The program of the education conference of 1953 will be built around the theme of music and art as instruments of world understanding. An exhibit of textbooks and materials of instruction will be open during the period of the conference.

All persons who are interested, whether enrolled in summer term or not, are invited to attend the sessions of the conference and to visit the book and materials exhibit.

ASSEMBLY

A college assembly is held in the Old Auditorium each week. Attendance of all students and faculty is expected. The schedule of assemblies will be announced at the opening of the term.

III. THE PROGRAM FOR THE MASTER'S DEGREE*

It is intended that the courses for the Master's degree for any student shall assume increased maturity, greater range of intellectual interests, much greater independence in reading and investigation and more constructive thinking than do the undergraduate courses offered for the Bachelor's degree.

The courses selected for the program of any individual shall total at least 48 quarter hours and shall be chosen under the sponsorship of the adviser in accordance with the following plan:

* Additional information regarding graduate work is found on page 23 and 24.

Group I. Basic Courses in Education. 12 quarter hours.

This requirement comprises three courses required of all candidates. These courses are intended to present certain basic concepts common to the desirable background of all mature workers in the field of Education. They consist of:

Education 550—Principles of Curriculum Development

Education 551—Social Foundations of Education

Education 552—Understanding the Individual

It is desirable that not more than one of these courses be taken in any one quarter or summer term of residence.

Students who have had courses equivalent to any of these may petition for exemption through examination. Elective courses equivalent in credit to those waived by the examination must then be substituted.

Group II. Courses Specifically Related to the Student's Career. 24 or 28 quarter hours.

These courses may be confined to a single department or they may be selected from more than one department. It is a criterion that the courses of the group must be unified about the student's professional aim. The adviser and the student share responsibility in the selection of these courses. An important factor in approving the petition for candidacy is the suitability of the courses proposed for this group.

Group III. Advanced Cultural Courses. 12 or 8 quarter hours.

These must be selected from courses designated for this purpose. The aim of this requirement is to advance the level of thinking and appreciation of problems or cultural aspects of life not directly associated with the student's professional career.

During the Summer Term, 1953, the following courses apply:

Art 550—Contemporary Trends in Visual Arts

Botany 550—The Science of Plant Life

*Comparative Literature 550—Greek Literature in English Translation

English 551—Biography

Geography 581F (53)—Field Study of the Regional Geography of North America (in post-session)

Mathematics 550—Mathematics in Modern Education and Life

Music 550—Music in History

Physical Education 460—Contributions of the Dance to Folkways, Art and Education

Social Science 581F (53)—Field Study of the Regional History of North America (in post-session)

* Taught in the Department of Foreign Language.

IV. INSTRUCTION

CREDIT

The unit for measuring credit is the quarter hour, representing one recitation hour per week of prepared work for twelve weeks. It is equivalent to two-thirds of a semester hour. A statement of the amount of credit is included in the description of each course.

A year's college work is equivalent to forty-eight quarter hours (thirty-two semester hours) of prepared work. A year's work in one subject is equivalent to twelve quarter hours (eight semester hours). The normal load of work for each quarter of the regular school year is four full courses, giving sixteen quarter hours credit. The regular load of work in a summer term of eight weeks is three full courses (twelve quarter hours).

Students who withdraw before the end of the summer term receive no partial credit for courses taken.

NUMBERING OF COURSES

Courses numbered 100-199 are normally freshman courses and may not be taken for full credit by students with senior standing. Courses numbered 200-299 are normally sophomore courses, but may be taken in any year. Courses numbered 300-399 and 400-499 are junior and senior courses. Junior and senior courses are not open to freshmen and sophomores. The student's program for graduation must include at least 64 quarter hours in courses not open to freshmen and sophomores.

Courses numbered 500 to 549 are planned for graduates, but may be taken by seniors with permission of the instructor and Dean; courses numbered 550 and above are open only to graduates. Certain courses numbered below 500 may be taken for credit toward the Master's degree. These are identified in the course descriptions.

GRADES

Grades are expressed in letters as follows:

A—Excellent	3 grade points
B—Good	2 grade points
C—Average	1 grade point
D—Poor, but passing*.....	0 grade point
E—Condition (Incomplete work)**.....	
F—Failure	—1 grade point
W—Withdrew	

* Passing but not accepted toward graduation or toward admission to practice teaching if more than one-fourth of the student's credits have a grade of D.

** The grade of E is given only when there exists a plan for making up the work. When the work has been made up the grade of E is replaced by the grade earned in the course. In case the work is not made up according to plan the grade of E stands on the student's permanent record.

PROBATION

A student who in a summer term fails one course and has an average lower than 1.0 in the remaining courses, or who in a summer term earns two grades of D is on probation during the next term of residence. The probation rules for students in sessions of the regular academic year may be found in the annual catalogue.

A student who has been on probation for two consecutive terms and whose grades during the second of the terms do not reach a standard which removes him from probation is dropped for low scholarship and his record is so marked if he transfers to another institution.

EXTRA COURSE LOAD

Three four-quarter-hour courses with the addition of not more than two one-quarter-hour courses constitute the normal load in an eight weeks term, but undergraduates whose grade point average in their last term of residence was 2.0 or higher may register for one additional four-quarter-hour course. Graduate students are not permitted to carry more than the normal load.

GRADUATION REQUIREMENTS

Master of Science in Education.

The degree, Master of Science in Education (M.S. in Ed.) will be conferred upon:

1. The completion of the program of studies as approved by the Committee on Candidacy, with grades that average B (2.0) and with not more than eight quarter hours of courses with grades below B.
2. Certification by the adviser not later than the mid-point of the term in which the degree is to be conferred that a substantial paper has been written and approved. This paper may be an outgrowth either of a course or of an outside project. The paper, and the work from which it grows, must exhibit ability to work independently and to meet a standard of written composition appropriate to the Master's degree level of maturity.
3. Satisfactory performance in a comprehensive examination intended to measure the degree to which the aims of the student's program have been achieved.

Residence. Not more than eight quarter hours of the minimum requirement of forty-eight quarter hours may be taken in extension courses. The remaining forty quarter hours must be in residence courses. This regulation governs the total credit both by transfer and through courses offered in this institution.

Transfer. Graduates of Eastern Illinois State College may submit credit not to exceed sixteen quarter hours earned in graduate courses in other institutions to apply toward the minimum requirement of forty-eight quarter hours. This credit is accepted and applied to the student's program upon recommendation of the student's adviser and approval of the Dean. Students whose Bachelor's degree was conferred by another institution must complete a minimum of forty-eight quarter hours in courses offered by Eastern Illinois State College.

A graduation fee of \$10.00 is charged.

Bachelor of Science in Education.

The degree of Bachelor of Science in Education is conferred upon graduation from a prescribed four-year curriculum.

A year's residence work is required for a degree.

Each curriculum that leads to a Bachelor's degree requires the completion of 192 quarter hours of academic courses with the addition of required physical education, Library 120, the passing of the Junior English Examination, and, in certain curricula, Business Education 120.

The physical education requirement for graduation comprises nine quarter hours of credit as noted in the special instructions given on page 25.

An average of 1.0 is required for graduation. Not more than one-fourth of the grades counted toward graduation may be D.

Sixty-four quarter hours of credit toward graduation must be in courses not open to freshmen and sophomores.

Students who have obtained approval for programs of study whereby all requirements for graduation will be met by June of any year are admitted to the commencement activities in the spring of that year and are considered as members of the class of that year. Those who finish in the summer term take part in the Summer Commencement held in August.

Registration in the Bureau of Teacher Placement is prerequisite to graduation.

A graduation fee of \$10.00 (see under Fees) is charged.

Junior College Diploma.

A Junior College Diploma is given at graduation from certain two-year curricula as described in the general catalogue. One year of residence, a grade point average of 1.0 or higher with not more than one-fourth of the grades below C, and the completion of 96 quarter hours of approved courses together with Library 120 and required physical education constitute the requirements for the diploma.

A graduation fee of \$10.00 is charged.

THE CURRICULUM IN ELEMENTARY EDUCATION

The following brief outline of the curriculum in Elementary Education is presented for reference. This curriculum leads to the degree of B.S. in Ed. and satisfies the requirements of the State Examining Board for a Limited Elementary School Certificate.

	Quar. Hrs.
Art 130, 224.....	8
Biology 126, 127, 128.....	12
Education 120, 228, 230, 232, 325, 343, 344, 345.....	32
English 120, 121, 122 or 126, 234, 348 or 343 or 344 or 452..	20
Geography 120, 221, 236.....	12
Health Education 120.....	4
Industrial Arts 224 or 225.....	4
Music 120, 228.....	8
Mathematics 120, 121.....	8
Physical Science 100, 101, 102.....	12
Psychology 231, 447.....	8
Social Science 146, 147, 148, 233, 234, 235.....	24
Speech 345	4
Teaching 441, 442, 443.....	12
Electives	24
Total	192

Note: Ensemble credit of 4 q. h. may be used for elective credit.

With the addition of:

Business Education 120 (1 q. h.)

Library 120 (1 q. h.)

Physical Education 315, 316, 317 (1 q. h. each)

Physical Education Activity Courses (9 q. h.)

Junior English Examination

RESIDENCE REQUIREMENTS IN PHYSICAL EDUCATION

College students who are enrolled during the school year are required to attend classes in physical education activities during every quarter or summer term of residence until they have earned nine quarter hours of credit in these courses.

Students who attend only in summer and who will not become candidates for graduation are released from all physical education requirements.

Students who attend only in summer terms and who will become candidates for graduation are released from physical education requirements after they have earned six quarter hours of credit, or after they have attained the age of thirty-eight.

JUNIOR ENGLISH EXAMINATION

The Junior English Examination is given on Thursday, July 16, at 7:30 p. m. in M35. Students who will become candidates for graduation and have attained junior standing (96 quarter hours credit or more) should arrange to take this examination. Application is made to the Head of the Department of English.

SPECIAL INSTRUCTIONS FOR NEW STUDENTS

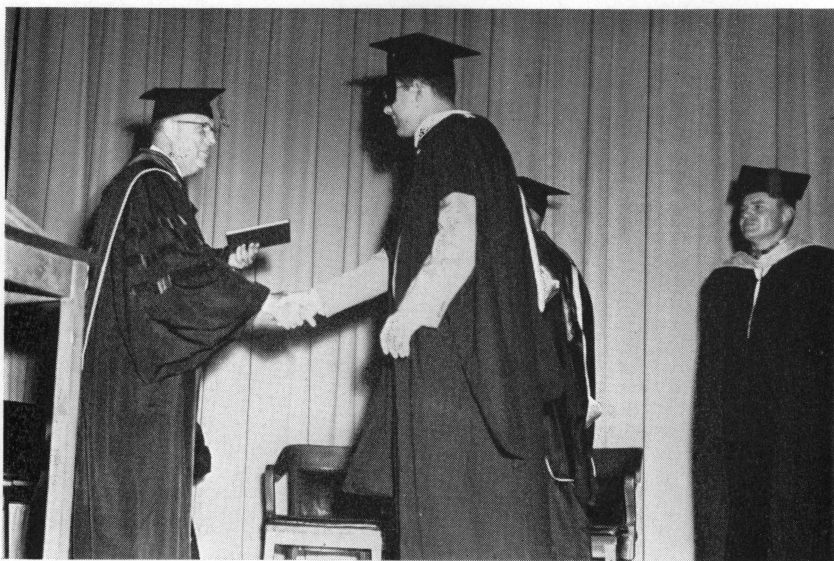
Students who are entering as freshmen or as transfer students at the beginning of the summer term with the intention of remaining during the regular school year should note the following special instructions.

A meeting of these students will be held at 9:30 a.m., on June 15, in S216. Instructions for registration and for the orientation program will be given at this meeting. It is the first obligation of students in this classification.

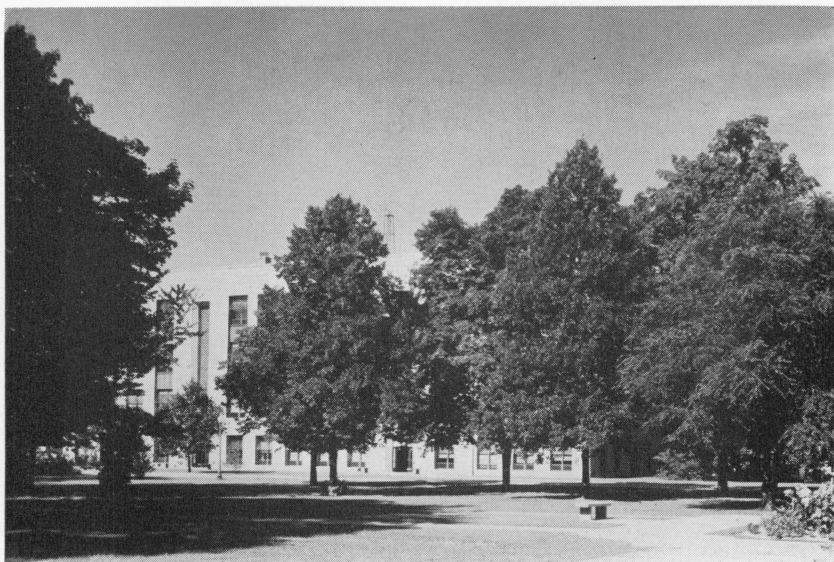
An orientation program consisting of tests and special meetings is conducted during the summer term. All entering freshmen and transfer students who expect to remain during the regular school year are responsible for attending all of these sessions.



LINCOLN HALL DINING ROOM



FIRST GRADUATE WITH M.S. IN ED. DEGREE



SCIENCE BUILDING



HOME MANAGEMENT HOUSES

V. DESCRIPTION OF COURSES

(An asterisk (*) indicates that the course may be counted for credit toward the Master's degree.)

A. THREE-WEEK COURSES

A. Courses on Campus.

Art 234. Crafts for Teachers. (4 q. hrs.) Exploration of materials and processes in the various crafts, adapted to the needs of the students, particularly the elementary teacher and the teacher of home-bound children. New materials and different uses of old materials developed in contemporary forms. June 29 to July 17.

***Music 450. Advanced Conducting and Materials in Music.** (4 q. hrs.) The course will include a study of techniques of the band and chorus on the advanced levels. Problems of the ensemble relating to materials, tone production, balance, tonal resonance and musical style will be included for discussion and demonstration. Of especial interest is the opportunity for observation afforded through the rehearsals of the high school student organizations which will be available at this workshop. Nationally known directors of band and chorus will be in charge of these groups and they will contribute to the overall experience which may be gained through discussion and demonstration. **May be taken for credit toward the Master's degree.** June 29 to July 17.

***Music 500. Individual Instruction in Literature.** (1 q. hr.) Applied music instruction in oboe, bassoon, flute, clarinet and voice. Literature for these mediums will serve as a basis for each individual student. **Primarily for graduates. Open to seniors with permission of the instructor and the Dean.** June 29 to July 17.

B. Extension Courses.

Education E220. Workshop in Elementary Education. (4 q. hrs.) Shelbyville, Illinois, August 10 to August 28. A workshop for individual problems related to the needs of teachers. Students who wish to register in this workshop are urged to write to Dr. Bryan Heise several weeks prior to its opening giving a description of their problem.

Speech E433. Speech Pathology. (4 q. hrs.) Newton, Illinois, August 10 to August 28. This course is prerequisite to all other courses dealing with disorders of speech for it is essentially a survey of the pathology and etiology of articulatory, voice, hearing, stuttering, and organically based speech disorders. A brief description of the individual psychology of the speech handicapped person is discussed.

B. EIGHT-WEEK COURSES

(Note: Unless otherwise indicated, classes meet daily at the hours stated, Monday through Friday.)

ART

100. Drawing I. (4 q. hrs.) Freehand drawing in various media including pencil and charcoal. Introduction to perspective, outdoor sketching and compositions from imagination. 1:30 to 3:40. Mr. Trank.

110. Design I. (4 q. hrs.) Introduction to basic design forms; color, principles and materials. Individual experimentation. 7:30 to 9:40. Mr. Loomer.

130. Introduction to Art. (4 q. hrs.) An elementary course which introduces the student to three fundamental divisions of art—design, color, and drawing. Training in basic principles with work in pencil, water color, chalk and decorative design processes. Section I, 7:30 to 9:40, Mr. Trank; Section II, 1:30 to 3:40, Miss Whiting.

221. Crafts II. (4 q. hrs.) Work in two-dimensional design which is applicable to fabrics and shows the immediate relationship between materials and processes such as weaving, batik, silk screen, stencil, air brush, block print. 7:30 to 9:40. Mr. Loomer.

224. Art for Teachers in Elementary Grades. (4 q. hrs.) The teaching of art in the elementary grades with practice in adapting art principles, processes and projects to different grade levels; work in curriculum making and in providing art background for room activities; training in lettering, craft techniques, and figure drawing. 1:30 to 3:40. Mr. Loomer.

231. Painting II. (4 q. hrs.) The use of oil paint and pastel as painting mediums, continued study of techniques. Use of model for figure compositions. 1:30 to 3:40. Mr. Trank.

238. History and Appreciation III. (4 q. hrs.) The development of the visual arts since the beginning of the eighteenth century with emphasis upon art in America. The relation of art to contemporary living. 8:40. Miss Whiting.

448. Composition II. (4 q. hrs.) Composition in various media with emphasis on three-dimensional forms. 9:50 to 12:00. Mr. Loomer.

***510. Materials for Designing I. (4 q. hrs.)** Experimentation with various materials, limitations and possibilities, adapted to teaching situations. Problems varied to meet individual needs in design areas. **Primarily for graduates. Open to seniors with permission of the instructor and the Dean.** 9:50 to 12:00. Mr. Loomer.

***520. Painting Techniques. (4 q. hrs.)** Experimental approach to different treatments, tools and media. Analysis for use in teaching. **Primarily for graduates. Open to seniors with permission of the instructor and the Dean.** 1:30 to 3:40. Miss Whiting.

***550. Contemporary Trends in Visual Arts. (4 q. hrs.)** The development of the visual arts today—materials, forms, purpose treatment; basis for evaluation and role in contemporary living. **Open only to graduates.** 11:00. Miss Whiting.

***560. Materials for Designing II. (4 q. hrs.)** Analysis and manipulation of design materials—fibers, metal, clay, wood—for understanding of expression and study for teaching. Advanced work in spatial concepts, textures and organization of form and color. **Open only to graduates.** Hours arranged. Miss Whiting.

BIOLOGICAL SCIENCE

I. General Biological Science

126, 127, 128. General Biological Science. (4 q. hrs. for each course.) An integrated course covering the fundamentals of botany and zoology. Local flora and fauna; structure, modification, and function of cells; physical and chemical properties of the food and energy relations of living things; cell division, reproduction, and laws of heredity. **Laboratory fee \$1.00 for each course.** Biology 126, 9:50 daily, 8:40 TTh. Mr. Scruggs; Biology 127, 7:30 daily, 8:40 MW. Mr. Peterka; Biology 128, Section I, 9:50 daily, 11:00 MW. Mr. Riegel; Section II, 1:30 daily, 2:40 MW. Mr. Kniskern.

II. Botany

120. General Botany. (4 q. hrs.) A course designed to give the student a knowledge of the fundamental life processes concerned in the growth of plants; the manufacture of the foods by green plants that are essential for all plants and animals; the structure of leaves, stems, and roots in sufficient detail to understand the processes that result in growth and the effect of environment upon these processes. **Prerequisite for Botany 235. Laboratory fee \$1.00.** 9:50 daily, 8:40 TTh. Mr. Thut.

121. General Botany. (4 q. hrs.) This is a study of the reproductive phase of plant life; a study of the reproduction of flowering plants leading to the formation of seeds and fruits; the mechanism of heredity and the quality of hybrids. The last part of the work gives the student the opportunity of surveying the natural groups of the plant kingdom with their development and environmental relationships and their economic significance. **Prerequisite: Botany 120. Laboratory Fee \$1.00.** 1:30 to 3:40 MTThF. Mr. Stover.

122. General Local Flora. (4 q. hrs.) An introduction to the geographic and physiographic ecology of North America. The identification of trees and shrubs, of the common algae, liverworts and mosses, ferns, and the common herbaceous flowering plants; and a study of the gross structures necessary for the recognition of these forms. The course is designed especially for elementary and second-

ary school teachers, but it is also useful to all who desire the ability to identify plants. **Prerequisite:** Botany 120 and 121, or permission of the instructor. 9:50 daily, 8:40 TTh. Mr. Stover.

232. Economic Botany. (4 q. hrs.) A study of the methods of plant propagation, the control of the life processes and regulation of the plant's environment for greater economic return as practiced in agriculture and industry; the effect of environmental factors on vegetation centers which have become crop centers; the production of carbohydrates, fats, fibers, lumber, spices, drugs, and other plant products as they occur in world trade. There are field trips to some of the more important industrial concerns using plants or plant products. **Prerequisite:** Botany 120 and 121. 11:00. Mr. Thut.

***445. Problems in Botany.** (4 q. hrs.) Designed to meet the needs of individual students. This summer the work is for those interested in the fungi; fungi causing the rotting of wood; poisonous and edible fungi (mushrooms); the common plant diseases caused by fungi. **Prerequisite:** Botany 231 or its equivalent. **Open to seniors and graduate students.** Laboratory fee \$1.00. Hours to be arranged. Mr. Stover.

***550. The Science of Plant Life.** (4 q. hrs.) A course designed for graduates who are teaching the biological sciences or general science and for students who wish to know the fundamentals of plant science. The course is intended to give an appreciation of the importance of plants in everyday living for both pupils and patrons of the schools and to develop the ability to become conversant with the common problems of the agriculturist and of the home gardener. **Not open to students who have a minor in botany. Open only to graduates for Group III requirements.** Laboratory fee \$1.00. 1:30 to 3:40 MTThF. Mr. Thut.

III. Zoology

120. General Zoology. (4 q. hrs.) A consideration of fundamental biological principles based upon animal material. This course forms the first quarter of the first year course in zoology. The structure and physiology of cells, tissues, and organs are considered. **Laboratory fee \$1.00.** 1:30 daily, 2:40 MW. Mr. Scruggs.

121. General Zoology. (4 q. hrs.) This course is concerned with the various types of reproduction in animals, with genetics and eugenics, and with fundamentals of classification. **Laboratory fee \$1.00.** 8:40 daily, 7:30 TTh. Mr. Kniskern.

122. General Zoology. (4 q. hrs.) A study of the structure and habits of the animals of the various divisions of the animal kingdom. Their ecology, geographic distribution, economic importance and evolution are considered. **Prerequisite:** Zoology 120, 121. **Laboratory fee \$1.00.** 3:50 daily, 2:40 TTh. Mr. Kniskern.

125. Elementary Entomology. (4 q. hrs.) A study of the insects which are common in the local environment. Means of recognition, life-history studies, and control measures are stressed. The insects of the fields, woods, and waters are studied as well as those found on the various farm crops. Much of the work is done in the field. 7:30 daily, 8:40 MW. Mr. Riegel.

225. Anatomy. (4 q. hrs.) Bodily structure is first studied by systems, followed by consideration of regions to establish the relationship among the systems. Particular attention is given to muscles, their names, origin, insertion, action, blood and nerve supply, with the specific object of providing a basis for the understanding of general body movements. **Laboratory fee \$1.00.** 9:50 to 12:00 MTThF. Mr. Cavins.

231. Vertebrate Zoology. (4 q. hrs.) This course deals with a study of the anatomy, classification, and habits of various classes of vertebrates. **Prerequisite:** Zoology 120, 121. **Laboratory fee \$1.00.** 1:30 daily, 2:40 MTh. Mr. Peterka.

343. Entomology. (4 q. hrs.) A study of insects. Deals with the classification and ecology of this large and important class. Methods of collection and preparation of specimens are studied. **Prerequisite:** Zoology 120, 121, 122. **Laboratory fee \$1.00.** 7:30 daily, 8:40 MW. Mr. Riegel.

448. Animal Ecology. (4 q. hrs.) A study of various animal associations and the effects of environmental conditions. **Prerequisite:** Two years of zoology and permission of the instructor. 1:30 daily, 2:40 MTh. Mr. Riegel.

449. Special Problems in Zoology. (4 q. hrs.) An advanced course for those interested in studying some special problem in the zoology field. The work is done independently with advice of the instructor. **Prerequisite:** Three years of zoology and permission of the instructor. **Laboratory fee \$1.00.** 3:50 daily, arranged. Mr. Scruggs.

***500. Field Zoology. (4 q. hrs.)** A course in local fauna designed to acquaint the student with the animal life of this area. Methods of collecting, preserving, and identifying animals are stressed. The course includes a study of the habits and life histories of selected forms. **Prerequisite:** One year of zoology or equivalent. Primarily for graduates. Open to seniors with permission of the instructor and the Dean. **Laboratory fee \$1.00.** 9:50 daily, 11:00 MTh. Mr. Kniskern.

IV. Human Physiology

345. Physiology. (4 q. hrs.) A study of the basic physiological principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration, and digestion. **Required in the physical education curriculum. Prerequisite:** Zoology 120 and 225. **Laboratory fee \$1.00.** 9:50 daily, 11:00 TTh. Mr. Peterka.

BUSINESS EDUCATION

110. Typewriting. (4 q. hrs.) Elementary instruction in typewriting. The work includes development of correct writing habits, drills in rhythm, simple tabulation, and letter writing. Speed requirement: minimum of twenty net words per minute for five minutes with three errors or less. **Fee \$1.00.** 9:50. Mr. Thompson.

111. Typewriting, Continued. (4 q. hrs.) This course includes the typewriting of different types of business letters, special attention being given to the form, arrangement, and style. It also includes the typewriting of telegrams, cablegrams, radiograms, manuscripts, reports, rough drafts, displayed matter, tabulations, billing, and common forms of legal documents. Speed requirement: minimum of thirty net words per minute for ten minutes with five errors or less. **Prerequisite: Business Education 110 or the equivalent. Fee \$1.00.** 7:30. Mr. Thompson.

112. Typewriting, Continued. (4 q. hrs.) In this course, skill development is continued at a higher level. More advanced work is given in business letters, telegraphic communications, tables and other statistical matter, billing and business instruments, legal and business documents, and related typing projects. Speed requirement: minimum of forty net words per minute for ten minutes with five errors or less. **Prerequisite: Business Education 110, 111, or the equivalent. Fee \$1.00.** 7:30. Mr. Thompson.

120. Penmanship. (1 q. hr.) A course designed to improve handwriting at the desk and blackboard and to present methods of teaching handwriting. Section I, 8:40. Miss Hunter; Section II, 1:30. Miss Hunter.

141. Business Correspondence. (4 q. hrs.) The aim of this course is to train students in the use of correct and forceful English for business purposes. Attention is given to the various types of business correspondence, such as: application letters, sales letters, credit letters, collection letters, adjustment letters, form letters, and business reports. Ample practice is given in writing these letters. **Prerequisite: English 120 and 121.** 11:00. Mr. Dickerson.

210. Advanced Typewriting. (4 q. hrs.) A course in the development of superior skill in typewriting. Additional and remedial training in speed and accuracy, and study of advanced typing projects are included. Speed requirement: minimum of fifty net words per minute for ten minutes with five errors or less. **Prerequisite: Business Education 110, 111, 112 or the equivalent. Fee \$1.00.** 7:30. Mr. Thompson.

211. Advanced Typewriting. (4 q. hrs.) This course is designed for those who wish to become skilled in typewriting. Remedial instruction for individual typewriting difficulties is given. Speed and accuracy are the objectives. Speed requirement: minimum of sixty net words per minute for ten minutes with five errors or less. **Pre-**

requisite: **Business Education 210** or the equivalent. Fee \$1.00. 7:30. Mr. Thompson.

212. Principles and Problems of Office Practice. (4 q. hrs.) Type-writing; filing; the use of voice writing equipment; duplicating and calculating machines. **Prerequisite: Business Education 210 and 211, or permission of the instructor.** Fee \$1.00. 11:00. Mr. Thompson.

248. Advertising and Selling. (4 q. hrs.) A general survey of the problems of selling and advertising, with special emphasis upon how each enters the life of the student; the psychology of salesmanship as it relates to the planning and execution of a sale; principles of general selling and advertising as they relate to selling. 8:40. Mr. Fagan.

***450B. Methods of Teaching Bookkeeping and Business Arithmetic.** (4 q. hrs.) In this course a critical study is made of the teaching of elementary bookkeeping by modern methods. In addition to lectures and discussions, there is sufficient laboratory work to insure mastery of the subject in its relation to the problems of the teacher. **May be taken for credit toward the Master's degree.** 7:30. Mr. Dickerson.

***450T. Methods of Teaching Typewriting and Office Practice.** (4 q. hrs.) Methods of teaching both beginning and advanced typewriting courses are included. Demonstrations are given in the teaching of typewriting techniques. Proficiency in the subject matter must be demonstrated before credit in this course is granted. **May be taken for credit toward the Master's degree.** 9:50. Mr. Thompson.

***462. Social Security Accounting.** (4 q. hrs.) Social security accounting is presented with its latest developments. Various blanks and forms are presented and worked out by each student. Problems connected with social security are studied from the point of view of both the employer and the employee. **Prerequisite: Business Education 230, 231, 232.** **May be taken for credit toward the Master's degree.** 8:40. Mr. Dickerson.

***480. General Insurance.** (4 q. hrs.) A survey of the risks to which man and property are subject and the elimination of the financial consequences of these risks through insurance coverages. Includes life, property, and casualty insurance. **May be taken for credit toward the Master's degree.** 11:00. Mr. Fagan.

***490. Part-time Supervised Business Training.** (4 q. hrs.) The course is intended to give experience in application of theory to office and store situations. Approximately two-thirds of the course is devoted to class work and one-third to supervised job training. **May be taken for credit toward the Master's degree.** 1:30. Mr. Fagan.

***590. Seminar in Business Education.** (4 q. hrs.) Special study and investigation on problems in the field of business education based on the graduate's abilities and needs. **Prerequisite: Consent of the head of the department.** Open only to graduates. Hours arranged. Staff.

EDUCATION AND PSYCHOLOGY

I. Education

228. Reading. (4 q. hrs.) An introduction to a study of the principles and the methodology of teaching reading in the elementary grades. Major emphasis is placed on silent and oral work-type reading. The objectives, instructional materials, and the teaching problems to be developed in each stage of reading experience form the basis for classroom discussion. The skills, attitudes, and abilities of each stage are considered. Demonstrations in the laboratory school are arranged for class observation and discussion. The place of phonics, the construction and use of tests, the making and use of good seat work, and the use of drills are topics carefully considered. **Prerequisite: Psychology 231 and Education 232.** 8:40. Mr. Moler.

230. An Introduction to Education. (4 q. hrs.) A comprehensive survey of the field of education designed to give an understanding of the development of the American school system, to aid in the analysis of current trends in American education, and to create an appreciation for teaching as a profession. 11:00. Mr. Campbell.

232. Human Growth, Development, and Learning. (4 q. hrs.) This course deals with how people learn. It is based on available research on human growth and development. Major emphasis is placed on developmental and learning problems of childhood and adolescence and their implication and significance in relation to classroom procedures. **Prerequisite: Psychology 231.** 9:50. Mr. Phillips.

325. Child and Curriculum. (4 q. hrs.) The course is designed to develop a readiness for teaching, and to build an understanding of a curriculum as it might be experienced by a child in the elementary school. Opportunities are provided for observation at all levels in the training school. **Prerequisite: Twelve quarter hours in education and psychology.** 11:00. Mr. Olsen.

343. Principles of Education. (4 q. hrs.) The course deals with properties of the human organism that make education possible, properties of society that make education necessary, historical concepts that have dominated organized education, the place of education in a democratic society, and the aims of education in a democratic society. Emphasis is placed upon a study of recent social trends and their implications for education. **Prerequisite: Education 230, 232, and Psychology 231.** 7:30. Mr. Campbell.

344. Tests and Measurements. (4 q. hrs.) About one-third of the time is devoted to educational statistics. The remainder of the time is devoted to a brief study of the testing movement, advantages and limitations of various types of tests, criteria for the selection of tests, examination of numerous standardized tests, and the construction of tests in the student's major field. **Prerequisite: Education 230, 232, Psychology 231.** 11:00. Mr. Rothschild.

345. Directing Learning. (4 q. hrs.) Through readings, observations, films, and discussions this course applies to the daily work of the teacher. The characteristics of a desirable learning situation and the facts and principles of growth, development, and learning. The course focuses on how the teacher can deal effectively with the innumerable learning situations and other duties and responsibilities connected with his position in an on-going educational program. **Prerequisite:** Education 120, 230, 232, and Psychology 231. 7:30. Mr. Phillips.

443L. Professional Laboratory Experiences. (4 q. hrs.) Laboratory experiences adapted to the needs of mature teachers. Opportunity is provided for study of teaching through observations, discussions, readings, and occasional participation in teaching. Experienced and certificated teachers may, with the approval of their advisers and the Dean of the College, substitute this course for Teaching 443. This course meets for two hours on the days of observation. The second hour is determined when class is organized. **Prerequisite:** Teaching 441 and 442, and permission of adviser and Dean of the College. 9:50. Mr. Edwards.

***469. Teaching of Reading.** (4 q. hrs.) A course designed to give the student knowledge of the importance of good reading instruction, to give experiences in the techniques of such instruction, to provide opportunity for a study of the types of reading and study difficulties, and to explore methods of diagnosis and remedial work useful to classroom teachers and supervisors. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 1:30. Mr. Moler.

***470. Language Arts in the Elementary School.** (4 q. hrs.) A critical review of objectives proposed for language arts instruction (exclusive of reading) at the elementary school level, with emphasis on their implications concerning organization of the program, content, materials, and procedures. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 11:00. Mr. Fisher.

***471. Teaching of Social Living in the Elementary School.** (4 q. hrs.) A course in methods and materials related to teaching social living. It is designed to aid teachers, supervisors, and administrators to promote better understanding of the role of history, civics, geography, and the natural sciences, not as separate areas with opposed objectives but as interacting factors in solving any social problem. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 8:40. Mr. Fisher.

***480. School Organization and Administration.** (4 q. hrs.) This is an introductory course for students who desire a knowledge of problems in educational organization, administration, and supervision in the nation, the state, and local units. School law and finance as well

as current educational problems receive attention. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 8:40. Mr. Olsen.

***481. Work of the Principal in the Modern School.** (4 q. hrs.) A basic professional course for the principalship in either the elementary or secondary school. The discussion, materials, and assigned problems are adapted to the interests and needs of the individual student. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 9:50. Mr. Fisher.

***487. Introduction to Audio-visual Education.** (4 q. hrs.) Practical theory and principles for use of multi-sensory materials and equipment in teaching. Typical considerations are: guidance in use of materials and equipment; evaluation of program; selection, purchase or production of materials; types of materials most in demand for each level and area of the curriculum. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 7:30. Mr. Byrnes.

***490. Principles and Techniques of Guidance.** (4 q. hrs.) This course deals with the principles and purposes underlying guidance activities, the organization for carrying on such activities, and a study of means by which counseling activities may be carried on in small communities as well as in larger systems. The guidance point of view and the role of the classroom teacher in a guidance program are emphasized. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 9:50. Mr. Moler.

***550. Principles of Curriculum Development.** (4 q. hrs.) The course is designed to give practical help to teachers and prospective administrators and supervisors in the improvement of instruction through curriculum development. The course deals with an evaluation of the current curriculum and the need for the introduction of new materials, learning experiences and activities. Attention is directed (1) to developing principles governing the selection of materials and experiences and (2) to ways of organizing these into effective teaching-learning units. The first portion of the course deals with philosophical concepts of curriculum work and the latter, or major portion, with actual problems of course of study and unit construction at either the elementary or secondary school level. Current trends in Illinois Curriculum Development Projects are also considered. **Open only to graduates.** Required of all candidates for the Master's degree. 9:50. Mr. Zeigel.

***551. Social Foundations of Education.** (4 q. hrs.) This course is intended to guide the student, on the level of individual readiness and capacity, in an analysis of the origin, growth, and present form of some of the social problems with which American public education is con-

fronted today. Among the areas to be studied are the nature of culture, socialization of the individual, the major sources of American culture, American family life, the community and the school, the effects upon the school of mobility and impersonality in an industrial age, equality of educational opportunity, the impact of pressure groups on the school, national resources, and current conflicting ideologies. **Open only to graduates. Required of all candidates for the Master's degree.** 1:30. Mr. Campbell.

***552. Understanding the Individual.** (4 q. hrs.) The purpose of the course is to help the individual to understand himself and, upon the basis of this insight, to understand others. The course deals with concepts of the self; the individual under threat; the creative individual; and the integration of personality. It involves the study of basic needs and drives and their modifications during childhood, adolescence, and adulthood. **Open only to graduates. Required of all candidates for the Master's degree.** 8:40. Miss Lawson.

***575. Development of Core Curriculum.** (4 q. hrs.) This course concerns itself with current practice, trends, and research in the organization of classroom learning experiences on both elementary and secondary school levels. History, development, and psychological bases for unit activity procedures at the elementary level, and for core curriculums, unified studies, and common learning programs at the secondary level are studied. The course includes reviews of pertinent research in child growth and development and learning, dynamics of group structure, and influence of the group upon the individual. Each student is assisted in developing materials applicable to his own school. **Prerequisite: Education 552. Open only to graduates.** 11:00. Mr. Heise.

***581. School Supervision—a Group Process.** (4 q. hrs.) This course, utilizing what is known about group dynamics and employer and employee relationships, is planned to help teachers and supervisors improve the school program through group processes. Emphasis is placed on practical application of principles of leadership and supervision to the end that staff members, patrons, and pupils may be able cooperatively to make their best contributions to the work of the schools. The origin, development, and current trends in school supervision, as well as the recognized responsibilities of supervisors and teachers to the supervisory program, are studied intensively. **Open only to graduates.** 7:30. Mr. Olsen.

***587. The Film As a Medium of Communication.** (4 q. hrs.) This course is designed to achieve a more thorough understanding of an important educational tool—the 16 mm. motion picture. Emphasis is placed on the film with respect to its teaching values. Various kinds of films are analyzed for content, accuracy, place in curricula, and utilization. Accepted techniques for effective use of films as educational instruments on all levels from kindergarten through universities

are discussed and demonstrated. Sources of films, methods of obtaining films, trends in educational film making, and evaluation of motion picture materials are considered. **Open only to graduates.** 1:30. Mr. Byrnes.

***592. Occupational Information.** (4 q. hrs.) A course concerned with collecting, evaluating, and using educational, occupational, and related information. The course seeks to develop familiarity with the more important types and sources of occupational and educational information and some skill in their use. Employment conditions and opportunities, job requirements, training facilities, and the changing economic trends are covered. **Open only to graduates.** 1:30. Mr. Anfinson.

II. Psychology

231. Introduction to Psychology. (4 q. hrs.) A beginning course. Major topics treated are schools of psychology; the physical basis of behavior; native and acquired responses; mental hygiene; and individual differences. 1:30. Mr. Phillips.

447. Social Psychology. (4 q. hrs.) This course deals with the various phases of social behavior. Specifically, some of the problems dealt with are instinctive adaptation to social situations, group and individual reactions to social phenomena, customs, fashions, fads, conventions, national and racial attitudes, occupations, institutions, and the social self in the present-day world. **Prerequisite: Sixteen quarter hours in education and psychology.** 7:30. Mr. Heise.

***451. Abnormal Psychology.** (4 q. hrs.) The purpose of this course is to acquaint the student with various forms and types of abnormal behavior. Stress is given to these patterns as they affect the relations between the teacher and the pupil. Attention is also given to a study of the adolescent. The philosophy of mental hygiene is integrated throughout the course, stressing the application of these hygienic principles in developing proper behavior patterns in the school and the community. **Prerequisite: Sixteen quarter hours in education and psychology.** May be taken for credit toward the Master's degree. 7:30. Mr. Rothschild.

***452. Psychological Measurements: Performance and Intelligence Testing.** (4 q. hrs.) A course dealing with advanced study of the use, interpretation, description, and administration of psychological tests used in measuring interests, aptitudes, and personality characteristics. Provision is made for case studies and laboratory experiences. **Prerequisite: Sixteen quarter hours in education and psychology, including Education 344.** May be taken for credit toward the Master's degree. 9:50. Mr. Rothschild.

***455. Mental Hygiene.** (4 q. hrs.) A course stressing the normal individual's problem of maintaining his own mental health, with secondary consideration of the significance of the community of mental illness in the cost of maintaining institutions, in crime, delinquency,

suicide, alcoholism, and the like. Physical, mental, emotional, and social factors underlying mental health; right and wrong use of mental mechanisms; rise and development of the mental hygiene movement and the application of its principles to home, school, and social situations. **Prerequisite:** Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree. 1:30. Mr. Cavins.

ENGLISH

122. Literature in the Grades. (4 q. hrs.) Emphasizes chiefly wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry suitable for children. 1:30. Miss Mather.

126. Grammar. (4 q. hrs.) A study of the English sentence, with some attention to the parts of speech. Methods are illustrated and stressed. This is primarily a course for those preparing to teach in the upper grades or in junior or senior high school English, but is open to any student who feels the need of grammatical insight. 7:30. Mr. Waffle.

231. Nineteenth Century Prose Fiction. (4 q. hrs.) This is a continuation of English 230, concerned with the fiction of the latter half of the nineteenth century as represented by the novels of George Eliot, Hardy, Meredith, and James. **Prerequisite:** English 230. 7:30. Mr. Kline.

234. American Literature. (4 q. hrs.) A survey of American literature from Colonial times to the end of the nineteenth century, stressing trends and major writers, with as much reading of original materials as the time will allow. 9:50. Mr. Widger.

235. Greek Drama. (4 q. hrs.) Origin and development of classical drama: Aeschylus, Sophocles, Euripides, with a study of Greek life and thought, and their contribution to our culture. **Prerequisite:** English 120, 121, 125. 1:30. Miss Cline.

237. Modern Drama. (4 q. hrs.) The purpose of this course is to familiarize the student with what is best in modern drama. 8:40. Miss Cline.

343. Contemporary Literature. (4 q. hrs.) Extensive reading in current literature introduces the student to the best that is being written today, and provides him with some standards of judgment with the hope of stimulating his enthusiasm for good books. 8:40. Mr. Waffle.

344. Advanced Rhetoric. (4 q. hrs.) Chiefly written composition, applying the principles of organization and effective expression to somewhat more extended material than do English 120 and 121. The course is intended to give both an introduction to the methods of research and opportunity for original work. 7:30. Miss Mather.

347. English Poetry, Milton to Wordsworth. (4 q. hrs.) Milton and his contemporaries. Restoration and Eighteenth Century Classicists (Dryden, Pope, Johnson). Precursors of Romanticism with stress on Blake and Burns. 9:50. Mr. Kline.

348. English Poetry, the Nineteenth Century. (4 q. hrs.) Early Romanticists: Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries. Victorians: Tennyson, the Brownings, Arnold, Clough, and Fitzgerald. Post-Victorians: the Rosettis, Morris, Swinburne, Hopkins, and Bridges. 11:00. Mr. Widger.

***453. Sixteenth and Seventeenth Century Prose.** (4 q. hrs.) A study that emphasizes the development of prose from the earliest experiments to later times, including such authors as Lyly, Sidney, Bacon, Bunyan and Milton together with the times that influenced and made it. **Open to juniors, seniors, and graduate students.** 8:40. Miss Mather.

***455. Eighteenth Century Prose Writers.** (4 q. hrs.) A study concerned with the prose writers of Queen Anne and the Hanoverians. Emphasis upon periodical literature and its influence on the education of the lower classes. **Open to juniors, seniors, and graduate students.** 1:30. Mr. Kline.

***501. Chaucer and His Age.** (4 q. hrs.) A study of Chaucer, such as *Book of the Duchess*, *Troilus and Cressida*, and *The Canterbury Tales*; of the London dialect out of which modern English grew; of Chaucer's contemporaries; and the life of the times. **Primarily for graduates. Open to seniors only with permission of the instructor and the Dean.** 9:50. Miss Cline.

***551. Biography.** (4 q. hrs.) A survey of biography designed to whet the reader's interest in the major periods of culture, English and American. **Open only to graduate students.** 11:00. Mr. Waffle.

FOREIGN LANGUAGE

Spanish

237. Conversation. (4 q. hrs.) Practice in Spanish conversation. **Prerequisite:** Two years of Spanish in high school or one year in college. 9:50. Mr. Guinagh.

Comparative Literature (in English Translation)

***550. Greek Literature in English Translation.** (4 q. hrs.) The first of three courses dealing with our cultural heritage. Selections will be taken from the following authors: Homer (*The Iliad* and the *Odyssey*); lyric poets; Æschylus (*Prometheus Bound*)†; Sophocles (*Œdipus the King*)†; Euripides (*Hippolytus*)†; Aristophanes (*The Clouds*); Herodotus (*The Persian Wars*); Thucydides (*The Peloponnesian War*); Plato (*The Apology*†, *Phaedo*, and *Republic*); Aristotle

(Nicomachean Ethics, Politics, and Poetics); Epictetus (The Manual); Demosthenes (On the Crown). **Open only to graduates. May be offered toward Group III requirements.** 8:40. Mr. Guinagh.

† Works read entirely.

GEOGRAPHY

120. Principles of Human Geography. (4 q. hrs.) A survey of the basic relationships between the natural environment and man's activities. This course is organized as a service course for those who are preparing for elementary school teaching and as a foundation for those who have selected geography as a major or minor subject. One half-day field trip is required of all students enrolled in the class. 8:40. Mr. Barton.

130. Geography of North America. (4 q. hrs.) A study of the countries of North America, with special reference to the United States, showing the geographic basis for their stages of development and commercial relations. **Prerequisite: Geography 120.** 7:30. Miss Zeller.

221. Climatology. (4 q. hrs.) A treatment of climates and their causes. As a basis a study is made of the form and motions of the earth as underlying influences upon the elements of weather and climate. 7:30 daily, 8:40 MW. Mr. Barton.

236. Elements of Geology. (4 q. hrs.) A study of the principles and lines of reasoning by which the history of the earth and of its life forms has been learned. The course is planned to give a general, not technical, knowledge which may help students to observe and enjoy the out-of-doors and to give a background for geography, botany, and zoology. 1:30 daily, 2:40 M.W. Mr. Brown.

281F(53) or 381F(53) or 481F(53) or *581F(53). Field Study of the Regional Geography of North America. (4 q. hrs.) During the three weeks (August 6 to August 23) there will be a field trip through Northern United States and Southern Canada. A map showing the route of the 1953 field study tour is shown on the inside of the back cover. Undergraduate credit earned in this course may be used as an elective in any curriculum. In some curricula this credit may be substituted for certain required courses. **May be offered toward Group III requirements for the Master's degree and in some instances advisers may approve the work for Group II credit.** A field study fee of \$170.00 is assessed each student. Mr. Barton.

447. Economic Geography. (4 q. hrs.) An advanced course for teachers of commercial geography in high school or for persons interested in studying the economic conditions which affect our daily lives. **Prerequisite: Senior college standing.** 11:00. Miss Zeller.

***453. Geography of Asia.** (4 q. hrs.) An advanced course. After a general survey of the continent, China, Japan, U.S.S.R., India, and the East Indies are studied in detail. **Prerequisite:** Geography 130, 331, 452. **May be taken for credit toward the Master's degree.** 11:00. Mr. Brown.

***454. Geography of Africa and Australia.** (4 q. hrs.) A regional study of Africa, Australia, New Zealand, East Indies, and the Islands of the Pacific. Political and economic regions are considered. The influence of the physical environment on colonial enterprises and the economic development of these regions are stressed. **May be taken for credit toward the Master's degree.** 9:50. Miss Zeller.

***550. Geographic Influences in World Affairs.** (4 q. hrs.) This course is offered as one of the cultural courses in the graduate program. The student is given the opportunity to study the relationship between man and his environment with particular emphasis upon the effect of natural resources, agricultural and industrial production and transportation in developing national policy. Problems of international politics are considered and the geographic foundations of these problems analyzed. The course is designed for the student with little or no previous work in geography. **Open only to graduates. May be offered toward Group III requirements for the Master's degree.** 7:30. Mr. Brown.

***555. Literature and Materials of Geography.** (4 q. hrs.) A study of the history of the development of the field of geography and of the writings of outstanding geographers and their philosophies from the earliest times to the present. **Open only to graduates.** 1:30. Mr. Barton.

HEALTH EDUCATION

120. Personal Hygiene. (4 q. hrs.) This course is largely personal hygiene, and stresses nutrition, digestion, dental hygiene, circulation, respiration, excretion, endocrines, and emotional health. It gives brief attention to the broad field of public or community health as it may affect the student, and considers the principles of bacteriology and immunology and a few important communicable diseases. Section I, 7:30. Mr. Riebe; Section II, 8:40. Mr. Cavins.

320. School and Community Health Problems. (4 q. hrs.) The course is designed for teachers and emphasizes their part in the development of a health program in the schools. It tries to create a better understanding of the physical and mental health of the school child, and gives special attention to the exceptional or handicapped child, to the detection of defects by testing and observation, and to the facilities available for the correction of defects. **Prerequisite:** Health Education 120 or its equivalent; Junior standing. 8:40. Mr. Riebe.

331. Driver Education and Traffic Safety. (4 q. hrs.) The purpose of this course is to prepare driver education teachers for secondary schools. Emphasis is placed upon the importance of the traffic safety problems, available instructional materials in this area, and the recommended methods of presenting such materials in the classroom and in the car on the road. **Prerequisite:** (1) Student must have an Illinois driver's license, (2) Student must have a safe driving record. **Elective in the Health Education minor.** 1:30. Mr. Riebe.

HOME ECONOMICS

201. Clothing Construction. (4 q. hrs.) Fundamental principles of clothing construction. **Prerequisite:** Home Economics 101. **Fee 50 cents.** 9:50 to 12:00. Miss Devinney.

304. Advanced Clothing. (4 q. hrs.) Selection and construction of tailored garments. **Prerequisite:** Home Economics 101, 201, 232. **Fee 50 cents.** 7:30 to 9:40. Miss Devinney.

345. Home Management House. (4 q. hrs.) Experience in the practical application of the principles of household management is offered through an eight weeks' residence period in the Home Management House. Miss Wilson.

347. Family Relationships. (4 q. hrs.) A study of trends in family life, including social and economic changes which affect family living. 11:00. Miss Wilson.

350. Consumers' Education. (4 q. hrs.) A study of the consumers' problems in the present-day markets; factors influencing consumers' demands; standardization and informative labeling. 9:50. Miss Wilson.

430. Home Furnishings. (4 q. hrs.) A study of the consumer's problems in the selection of home furnishings. Emphasis is placed on consideration of needs and available resources of the family and on the importance of intelligent planning in the selection, combination, and use of furnishings. Making of draperies, slip-covers, and the upholstering of furniture is included in the laboratory work. **Fee \$2.00.** 1:30. Miss Devinney.

INDUSTRIAL ARTS

135. Intermediate Woodwork. (4 q. hrs.) This course is a continuation of Industrial Arts 134. Additional tools and materials are studied. A study of lumber is made. A limit is set as to types of projects undertaken. Two class discussions and six hours laboratory work each week. **Prerequisite:** Industrial Arts 134. **Fee \$2.00.** 1:30 to 3:40. Mr. Elliott.

150. Applied Electricity. (4 q. hrs.) Problems of the consumer. Treatment of electrical problems arising around the home forms the core for the course. House wiring, power circuits, automotive elec-

tricity, and the repairing of electrical appliances are studied. Working techniques are stressed. Four class discussions and 2 hours laboratory work each week. **Fee \$2.50 (includes all supplies).** 9:50 daily, 11:00 MW. Mr. Elliott.

224. Primary Grade Handwork. (4 q. hrs.) A course to familiarize teachers of the lower grades with the use of handwork for educational ends. Such materials as paper, textiles, reed, raffia, and clay are used. A teachers manual is developed. Two class discussions and six hours laboratory work each week. **Fee \$2.50.** 7:30 to 9:40. Mr. Duncan.

225. Intermediate Grade Handwork. (4 q. hrs.) This is a course for teachers of the upper elementary grades. Industrial activities in woods, metals, ceramics, and graphic arts are included. Two class discussions and six hours laboratory work each week. **Fee \$2.50.** 1:30 to 3:40. Mr. Duncan.

226. Sheet Metal. (4 q. hrs.) Special emphasis is given to the development of skill in the use of hand tools for shaping sheet metal. The use of machines is also included. A study of pertinent subject matter is a part of the course. Some practice in surface development is given. Two class discussions and 6 hours laboratory work each week. **Prerequisite: Industrial Arts 232. Fee \$2.50.** 7:30 to 9:40. Mr. Gunderson.

336. Millwork. (4 q. hrs.) This is a course which stresses furniture and cabinet making with the use of woodworking machines. The care and adjustment of machines are included. Those who take this course may expect the variety of projects to be limited in order that certain essentials may be covered. Two class discussions and six hours laboratory work each week. **Prerequisite: Industrial Arts 135. Fee \$2.00.** 1:30 to 3:40. Mr. Elliott.

352. Machine Metal I. (4 q. hrs.) This course presents the basic principles of machine work as applied to the engine lathe. The operation, adjustment, care, and repair of the lathe are covered. Two class discussions and six hours laboratory work each week. **Fee \$3.00.** 9:50 to 12:00. Mr. Gunderson.

354. Machine Metal II. (4 q. hrs.) This course covers additional fundamental principles of machine work with applied laboratory work on the drill press, milling machine, and shaper. The care and repair of these machines are included. Two class discussions and six hours laboratory work each week. **Prerequisite: Industrial Arts 352. Fee \$3.00.** 9:50 to 12:00. Mr. Gunderson.

***451. Organization of Subject Matter. (4 q. hrs.)** This is a continuation of Industrial Arts 340 and involves advanced work in the preparation of instructional material with a view to providing for individual progress. (This course can be taken only by special arrangement with instructor in advance of registration.) **Prerequisite: Industrial Arts 340. May be taken for credit toward the Master's degree.** 2:40. Mr. Klehm.

***452. Recreational Crafts. (4 q. hrs.)** Instruction and work experiences are provided in the areas of plastics, art metal, Keene's cement, block printing and woodcraft. This course is designed for those interested in crafts for teaching purposes or leisure-time pursuits. Students electing this course may not elect Industrial Arts 225 for credit. Students taking this course for graduate credit will make a substantial investigation and report on a selected crafts topic of special interest in addition to the regular course requirement. Two class discussions and six hours laboratory work each week. **Elective. May be taken for credit toward the Master's degree. Fee \$2.50. 9:50 to 12:00. Mr. Duncan.**

***570. Design and Construction in Industrial Arts. (4 q. hrs.)** This course is designed to give the student much practice in designing problems in selected areas of industrial arts activities. Special attention is given to combining in the chosen problems good principles of design, and principles of construction suitable to equipment found in industrial arts laboratories and to desired teaching units. Major emphasis is on designing of projects for grades 7-12. Two hours class work each week and four hours of laboratory work. **Open only to graduates. 11:00 daily, 9:50 MW. Mr. Klehm.**

***580. Planning Industrial Arts Laboratories. (4 q. hrs.)** A study is made of the building and equipment needs for various industrial arts laboratories. Special consideration is given to both industrial arts and general education objectives so that laboratories may be planned for optimum student development. Opportunities are offered for planning industrial arts laboratories for specific situations. **Open only to graduates. 7:30. Mr. Elliott.**

LIBRARY SCIENCE

120. Use of the Library. (1 q. hr.) An orientation course covering library tools and services with special emphasis on the use of the card catalog, magazine indexes, and common reference books. **Does not count toward a minor in library science. Required in all curricula. Exemption by pre-test given during first class meeting. 2:40 TTh for the first six weeks. Mr. Eberhardt.**

324. Materials I. (4 q. hrs.) Evaluation and selection of books for school libraries; examination of standard book lists and reviewing media; order and accession routines; general care of books. 9:50. Mr. Eberhardt.

330. Library Guidance. (4 q. hrs.) Reading interests and needs of young people; examination of books and materials, standard and current, in relation to their usefulness in meeting individual needs and interests and the demands of the school curriculum; criteria for evaluation and selection; guidance in the use of materials. 1:30. Mr. Eberhardt.

350. Library Methods. (4 q. hrs.) Methods and mechanical processes necessary to the proper functions of the school library; classification and cataloging; types and uses of catalog cards; subject headings; shelf listing; problems of filing. **Prerequisite:** Library Science 324. 8:40. Mr. Eberhardt.

441. Library Observation and Practice. (2 q. hrs.) A course designed to provide the student with practical experience in library services and routines, under supervision. Assignments for practice work are made in the College and Training School libraries. Recommended as an essential course for prospective librarians. **Prerequisite:** Library Science 250. Hours arranged. Mr. Eberhardt.

MATHEMATICS

120. The Science, Psychology, and Teaching of Number. (4 q. hrs.) The subject matter and technique of teaching mathematics in the first six grades. 7:30. Mr. Davis.

121. Mathematics in the Upper Grades. (4 q. hrs.) The subject matter of the upper grades is discussed from the standpoint of its psychological and scientific development and of its use. 8:40. Mr. Ringenberg.

228. College Geometry. (4 q. hrs.) The objects of this course are to improve and extend the student's knowledge of the content and methods of Euclidian geometry and to give an introduction to modern geometry. Geometry of the triangle; homothetic figures; harmonic range; cross ratio; introduction to the notion of duality; Desargue's theorem and other classic theorems. **Prerequisite:** Mathematics 134. 8:40. Mr. Heller.

345. Calculus. (4 q. hrs.) Infinite series, partial differentiation, multiple integration, with applications. **Prerequisite:** Mathematics 235, 236. 11:00. Mr. Ringenberg.

***450. Differential Equations.** (4 q. hrs.) Processes used to find formal solutions of ordinary differential equations, a critical analysis of several elementary types, envelopes and trajectories, use of series in solving differential equations, Picard's method of approximation, singular solutions, applications to mechanical and electrical problems, existence theorems, an introduction to partial differential equations. **Prerequisite:** Mathematics 345. May be taken for credit toward the Master's degree. 7:30. Mr. Ringenberg.

***520. Higher Geometry.** (4 q. hrs.) A selection of topics from projective geometry, differential geometry, non-euclidian geometries, and topology. This course is designed to give the student a better understanding of the nature and scope of geometry as a branch of modern mathematics. May be taken for credit toward the Master's degree. 1:30. Mr. Ringenberg.

***550. Mathematics in Modern Education and Life. (4 q. hrs.)** A course designed to give the student an appreciation of the subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum. **Open only to graduates.** May be offered toward Group III requirements. 9:50. Mr. Davis.

***560. Problems in the Teaching of Arithmetic. (4 q. hrs.)** The purpose of this course is to provide experiences that will help graduate students become superior teachers of arithmetic, particularly in grades 1 through 6. The course consists of assigned readings, group discussions, and individual or group projects and reports. **Open only to graduates.** 1:30. Mr. Davis.

MUSIC

120. Introduction to Music. (4 q. hrs.) Primary emphasis of the course is placed upon the musical development of the prospective teacher by means of group and individual singing, bodily movements in response to rhythms, study of elementary music theory, ear-training and simple dictation, music reading, study of the elements of design in music, and acquaintance with music literature used in the elementary phase of the lower grade music curriculum. 11:00. Miss Hanson.

228. Music in Elementary Schools. (4 q. hrs.) A study of the objectives, methods, and materials of music education in the elementary grades. Teaching theories and basic principles underlying the musical development of the child are discussed in class and made clear through observation of music teaching in the Training School. **Prerequisite:** Music 120. 1:30. Miss Hanson.

229. Music Appreciation. (4 q. hrs.) An enriching cultural course open to all college students. A study is made of various types and forms of music as a means of increasing the student's enjoyment in listening to music. Many favorite selections from the great masterpieces of music are made familiar through listening and analysis. 7:30. Miss Smith.

351. History and Appreciation of Music. (4 q. hrs.) This course emphasizes the development of music from its beginning to the present time. A survey is made of schools, nationalities, composers, emphasizing representative musical literature. The second quarter's work is designed to assist the student to an understanding and an appreciation of music from the listener's standpoint. Methods and materials for teaching are included. 8:40. Miss Smith.

***451. Music Supervision. (2 q. hrs.)** A survey of the development of public school music in the United States and of the reconstruction taking place in the present school music program. Criteria for evaluating music instruction and problems of supervision are discussed.

Methods for improving instruction by the classroom teacher, personnel problems, and administration of the all-school music program are included. **May be taken for credit toward the Master's degree.** 7:30. Mr. Dvorak.

***515. Materials of Vocal Groups.** (2 q. hrs.) This course is designed to give the vocal director a survey of materials appropriate to the vocal program of the advanced teacher. Materials of the glee club, chorus, and the a cappella choir are read and analyzed. A high standard of music reading and understanding is required for admission. **Primarily for graduates. Open to seniors with permission of the instructor and the Dean.** 9:50. Mr. Rezzatto.

***550. Music in History.** (4 q. hrs.) A study of the development of the art from the beginning through the Medieval, Gothic, Renaissance, and Romantic periods to the modern era. The course presents music, not as an isolated art, but as a reflection of the economic, political and cultural conditions which surround the social and esthetic epochs of the growth of civilization. **Open only to graduates. May be offered toward Group III requirements.** 8:40. Mr. Dvorak.

***556. Teaching Techniques in Woodwinds.** (2 q. hrs.) This is an advanced course in woodwind instruments. It is designed to give the teacher of music advanced techniques in teaching materials and methods of the woodwind instruments. **Open only to graduates.** 9:50. Mr. Boyd.

***561. Methods of Music in Junior and Senior High Schools.** (4 q. hrs.) The problem of attuning the music program to the junior and senior high school levels is given particular attention. Curriculum construction, course content, class voice, the general music class, physical facilities, library building, building the program, assemblies in music, community relationships and materials in music are included for detailed study. **Open only to graduates.** 1:30. Mr. Rezzatto.

***565. Community Music.** (2 q. hrs.) A study is made of music appropriate for community gatherings. The community sing, camp-fire singing, and the church choir are given comprehensive study. **Open only to graduates.** 8:40. Mr. Rezzatto.

***570. Survey of Music Literature.** (4 q. hrs.) This is a course in musical understanding. Music of the various periods of historical development is heard through recordings and through the performance of members of the staff and qualified students of music. Periods are identified and the styles of composers analyzed in light of their influence on the progress of the art of music. Attention is focused on music that is heard at current concert programs, so that the medium of sound and pertinent information is made familiar to the student. **Open only to graduates.** 11:00. Mr. Dvorak.

Class Methods of Instruction

Instrumental Class Methods. The instrumental class method courses are designed to teach the techniques, musical possibilities, basic theories and methods of teaching instruments of the band and orchestra. The basic physical laws and methods of tone production are comprehensively treated with the view of developing a progressive approach to the expressive and technical problems of the instruments. Instruments are studied simultaneously with methods of teaching. Materials and methods suitable for the public school are surveyed. These courses may not be substituted for applied music courses.

236 (336). Woodwind Class Methods—Clarinets. (2 q. hrs.) Fee \$1.00. 1:30. Mr. Boyd.

356 (338). Woodwind Class Methods—Flute, Oboe, and Bassoon. (2 q. hrs.) Fee \$1.00. 1:30. Mr. Boyd.

Applied Music

Courses in applied music are available in the fields of voice, piano, brass, strings, and woodwinds. Students should consult the head of the department.

PHYSICAL EDUCATION

MEN

For a statement of the residence requirement in physical education, see Physical Education for Women.

226. Physical Education Activities for Elementary, Junior, and Senior High Schools. (4 q. hrs.) This course includes the study and practice of the physical education activities for the different age levels, including the organization, management, and methods in the leadership of the various activities. 9:50. Mr. Groves.

244 (344). Kinesiology. (4 q. hrs.) A study is made of the science of body mechanics. The topics that are studied are laws of physics applied to activity, joint movements, motion of muscle groups in producing motion, analysis of fundamental body movements, and the adaptation of gymnastic exercises to posture training and sport activities. **Prerequisite: Zoology 225.** 11:00. Mr. White.

340. Methods and Materials for Teaching Physical Education. (4 q. hrs.) This course includes methods of teaching physical education and also the collection and preparation of materials for students on the different age levels in the elementary, junior, and senior high schools. 11:00. Mr. Healey.

347. Basketball Coaching. (4 q. hrs.) This course deals with the professional aspect of basketball coaching. It involves offensive and defensive styles of play, fundamentals, team play, and a study of the rules including the change of rules, and conduct of tournament play. 8:40. Mr. Healey.

348. Football Coaching. (4 q. hrs.) This course deals with the fundamentals of football, including blocking, tackling, passing, kicking, offensive and defensive line and backfield play, and the different systems of play. 1:30. Mr. Groves.

350. Baseball Coaching. (4 q. hrs.) The course includes the techniques of batting, fielding, playing the different positions; the strategy of baseball, the conduct of daily practice, rules and play situations; also methods of teaching baseball and understanding baseball. Major League vs. college baseball is discussed. 9:50. Mr. White.

451. History and Principles of Physical Education. (4 q. hrs.) A review of the historical background of physical education traces the influences that have contributed to the development of the modern philosophy of physical education. The course also considers the relationship of physical education to general education and the principles upon which the program of physical education is based. The standards and objectives of physical education are considered. 7:30. Mr. Masley.

***500. Seminar in Physical Education.** (4 q. hrs.) A critical review of selected studies, literature, practices and procedures as applied to methods and techniques in the field of physical education. **Primarily for graduates. Open to seniors with permission of the instructor and the Dean.** 8:40. Mr. Masley.

***560. Problems of Administration in Physical Education.** (4 q. hrs.) Solution of problems emerging from the administration of physical education in the schools. **Open only to graduates.** 7:30. Mr. Healey.

Note: Service courses in men's physical education are available at 2:40 and 3:50 MWTh.

WOMEN

Theory Courses

132. Leadership in Recreation. (4 q. hrs.) Discussion centering around a basic philosophy, qualifications for the leader, functional areas for recreation, and activities and interests that may be utilized; practical experience in party planning and administration, camping, and outdoor cookery. 1:30. Miss Lambert.

234. Technique of Team Sports—Basketball, Volleyball, and Softball. (4 q. hrs.) The fundamentals of coaching and officiating team sports. Techniques and tactics of individual and team play are stressed. **Prerequisite:** Activity courses in the above sports or permission of the instructor. 9:50. Miss Hart.

352. Activity Needs and Interests of the Elementary School Child. (4 q. hrs.) The needs in terms of growth, development, and adjustment of children of the elementary grades. How to choose activities that will contribute most to the satisfaction of these needs. **Prerequisite:** Physical Education 130 or permission of the instructor. 8:40. Miss Lambert.

***460. Contribution of the Dance to Folkways, Art, and Education.** (4 q. hrs.) A study of the relationship of dance to other arts and a consideration of its place in the teacher education curriculum. Specific emphasis is given to the use of materials on different levels of instruction. Of special interest to principals, administrators, teachers, recreation and community leaders concerned with program planning is the stress on recent developments in the areas of dance. **May be offered toward the Group III requirements for the Master's degree with special permission.** 11:00. Miss de Laban.

Service Courses

Regular college students are required to attend classes in physical education during every quarter of residence, including summer terms, until nine quarters have been completed with passing grades. Classes meet three days a week.

Students who attend only in summer terms are governed by the following rules: Students who do not intend to become candidates for graduation are exempt from all requirements in physical education. Students who intend to become candidates for graduation must take physical education each summer until six quarter hours have been earned or until they have reached the age of thirty-eight. The preparation by the Dean or Registrar of an outline for graduation is interpreted as intent to become a candidate for graduation.

180. **Archery.** (1 q. hr.) 2:40. Miss Hart.

181. **Beginning Badminton.** (1 q. hr.) 7:30. Miss Lambert.

186. **Beginning Swimming.** (1 q. hr.) Fee \$2.00. 11:00. Miss Hart.

187. **Beginning Tennis.** (1 q. hr.) Must furnish own tennis racket and two balls. 8:40. Miss Hart.

190. **Folk and Square Dancing.** (1 q. hr.) Open to men and women. 1:30. Miss de Laban.

191. **Beginning Modern Dance.** (1 q. hr.) 9:50. Miss de Laban.

192. **Social Dance. (Beginners only).** (1 q. hr.) Open to men and women. 8:40. Miss de Laban.

286. **Advanced Swimming.** (1 q. hr.) Fee \$2.00. 11:00. Miss Lambert.

287. **Intermediate Tennis.** (1 q. hr.) Student must furnish own racket and two balls. 1:30. Miss Hart.

316. **Rhythms for Elementary Grades.** (1 q. hr.) Two days a week. This course does not count as required physical education. Open to men and women. 7:30. Miss de Laban.

317. **Indoor Recreational Games for Elementary Grades.** (1 q. hr.) Does not count for required physical education. Open to men and women. 9:50. Miss Lambert.

Courses for Individual Needs. Courses in modified form of activity are offered for students with individual problems. "Rest" classes for students whose physical condition will not permit any activity. Time arranged.

PHYSICAL SCIENCE

I. General Physical Science

100. Physical Science. (4 q. hrs.) Basic concepts of physical science are presented through a rather thorough study of topics selected from physics and astronomy. 9:50 daily, 8:40 TTh. Mr. Lefler.

101. Physical Science. (4 q. hrs.) This course is the same type as 100. Topics selected cover the basic concepts of chemistry. May be taken before 100 or simultaneously with 100. 7:30 daily, 8:40 MW. Mr. Foreman.

102. Physical Science. (4 q. hrs.) A continuation of 100 and 101. Topics selected involve electricity, atomic structure, radioactivity, isotopes, and the chemistry of foods. **Prerequisite:** Physical Science 100, 101. Section I, 1:30 daily, 2:40 MW. Mr. Foreman. Section II, 1:30 daily, 2:40 MW. Mr. Lefler.

These three courses are required in the elementary curriculum and fulfill the laboratory science requirement in other curricula. They are not counted toward a major or minor in chemistry or physics. Laboratory fee \$1.00 for each course.

II. Chemistry

132. Elementary Chemistry. (4 q. hrs.) This course gives the student some understanding of the chemical world in which he lives and how it affects his life. The chemistry of several non-metals, including oxygen, hydrogen and chlorine, is studied along with atomic structure and the periodic table. **Fee of \$3.00 for breakage ticket.** 1:30 daily, 2:40 MWF. Mr. Steele.

234. Introductory Quantitative Analysis. (4 q. hrs.) The laboratory work includes experiments in both gravimetric and volumetric analysis as well as calibration of quantitative apparatus. Class work includes a study of the principles of quantitative analysis together with a critical study of analytical data and quantitative calculations. **Fee of \$3.00 for breakage ticket.** 7:30 daily, 8:40 MWF. Mr. Steele.

261. Intermediate Chemistry. (4 q. hrs.) Topics for study include those generally omitted and those to which very little attention is given in the general chemistry course. These include radioactivity and isotopes, electro-chemistry, chemical bonding, complex ions, silicon and fluorine chemistry, etc., which serve to round out one's general chemistry background. Extensive use is made of library materials for both oral and written reports. **Prerequisite:** Chemistry 132. **Fee of \$3.00 for breakage ticket.** 9:50 daily, 8:40 MW. Mr. Steele.

300. Photography. (4 q. hrs.) The general theory and use of the camera, types of emulsions, latent image, development, fixation, printing, enlarging, toning, filters, color photography, composition. A camera is required. The film and paper used is to be paid for by the student. **This course does not count toward a major or minor in chemistry. Prerequisite:** One year of college laboratory science. **Fee of \$3.00 for breakage ticket.** 11:00. Mr. Marcy.

345. Organic Chemistry. (4 q. hrs.) This course deals with the aromatic compounds and identification of organic compounds. Chemistry 345 or 450 will be offered according to demand. **Prerequisite:** Chemistry 130, 131; Chemistry 132 or simultaneous registration. **Fee** of \$3.00 for breakage ticket. 1:30 daily, 2:40 MWF. Mr. Marcy.

***450. Advanced Chemistry.** (4 q. hrs.) Laboratory technique, maintenance and repair of apparatus and use of chemical literature are developed by means of a simple research problem. The student is expected to help in choosing a problem in the chemistry field which will be most valuable to him in rounding out his work after consultation with the head of the department. **Chemistry 450 is required of all chemistry majors unless Chemistry 491, 492, 493 are elected. Prerequisite:** Senior standing in chemistry and consent of the head of the department. **Fee** of \$3.00 for breakage ticket. May be taken for credit toward the Master's degree. Hours arranged. Mr. Marcy.

***554. The Teaching of Physical Science.** (4 q. hrs.) A course for mature students which gives opportunity to develop individual skill in designing and conducting demonstrations, projects and experiments in chemical science. The student is encouraged to make use of literature, inexpensive equipment and materials usually available to teachers in elementary and secondary schools. **Prerequisite:** Teaching experience and one year of physical science, or of chemistry or of physics. Open only to graduates. 11:00. Mr. Foreman.

III. Physics

130. First Year of College Physics. (4 q. hrs.) Mechanics. **Laboratory fee \$1.00.** 7:30 daily, 8:40 TTh. Mr. Lefler.

131, 132. First Year of College Physics. (4 q. hrs. for each course.) Physics 131, heat, sound, and light; 132, magnetism and electricity and modern physics. **Laboratory fee \$1.00 for each course.** Physics 131, 9:50 daily, 8:40 MW. Mr. Sparks; Physics 132, 1:30 daily, 2:40 TTh. Mr. Sparks.

235. Mechanics and Heat. (4 q. hrs.) Dynamics and statics; energy and its transformations; elasticity; temperature and thermometry; calorimetry; transfer of heat; thermal properties of gases. One lecture and three laboratory periods a week. Either Physics 235 or 460 will be offered according to demand. **Prerequisite:** First year college physics. **Laboratory fee \$1.00.** 7:30 daily, 8:40 MWF. Mr. Sparks.

***460. Electrical Measurements.** (4 q. hrs.) DC and AC circuit analysis; current and ballistic galvanometers; bridge and potentiometer circuits; measurement of resistance, inductance, capacitance, and electromotive force; thermo-electromotive force; calibration of electrical instruments; magnetic measurements. One lecture and three laboratory periods a week. **Prerequisite:** First year college physics. May be taken for credit toward the Master's degree. **Laboratory fee \$1.00.** Hours arranged. Staff.

***480. Special Physics Problems.** (4 q. hrs.) Selected problems based on the student's previous training and interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference. Either Physics 132 or 480 will be offered according to demand. **Prerequisite:** Permission of instructor. **May be taken for credit toward the Master's degree.** Laboratory fee \$1.00. Hours arranged. Staff.

SOCIAL SCIENCE

137. Greek History with Its Oriental Backgrounds. (4 q. hrs.) This course includes a brief survey of Egypt and the Fertile Crescent area, culminating in an optional trip to Chicago's Oriental Institute. The main body of the course is devoted to Greek history, as follows: Aegean backgrounds and the early Greek life; the Formative Age; Hellenic history and achievements; the Hellenistic world and its influence on the Roman empire. 11:00. Mr. Guinagh.

138. Roman History. (4 q. hrs.) Roman history and its meaning for modern students. The Roman Empire tradition in the light of historical fact. 9:50. Mr. Alter.

147. A Survey of World Civilization, 1500 to 1900. (4 q. hrs.) The rise of national states and modern capitalism; Renaissance and Reformation; royal absolutism and revolution; origins of modern technology; colonization, imperialism and new contacts with Asia. 1:30. Mr. Alter.

148. A Survey of World Civilization, 1900 to the Present. (4 q. hrs.) Origins of World War I; Communism, Fascism, Nazism; World War II; the challenges of the present day. 7:30. Mr. Seymour.

233. History of the United States to 1840. (4 q. hrs.) Survey of colonial history. The independence movement. The framing and adoption of the Constitution. The growth of American nationality. Western development and Jacksonian democracy. 11:00. Mr. Miner.

234. History of the United States, 1841 to 1898. (4 q. hrs.) Manifest Destiny and the slavery controversy. The Civil War and Reconstruction. The new industrial society and the agrarian movement. 7:30. Mr. Miner.

235. History of the United States since 1898. (4 q. hrs.) The War with Spain. The United States as a World Power. The growth of industry and the progressive movement. The First World War. Postwar problems. Depression and the New Deal. The Second World War. 1:30. Mr. Coleman.

254. Elements of Economics. (4 q. hrs.) The nature of economics; factors in production; agricultural, industrial, and business organization of production; capitalistic combinations; labor organization and policies; industrial conflict and peace; the nature of money; credit. 1:30. Mr. Plath.

256. Elements of Economics, Continued. (4 q. hrs.) Consumer problems, public expenditures, taxes and debt; capitalism and its rivals. 7:30. Mr. Plath.

261. The Elements of Democratic Government. (4 q. hrs.) A consideration of the bases of democratic government. An examination of the different forms which democratic government has taken, with particular attention to the United States, Great Britain, and Canada, and a consideration of the reasons for these differences. Democratic government and totalitarian government compared. A study of those forces which strengthen and those which weaken democratic government. 8:40. Mr. Coleman.

265. The National Government. (4 q. hrs.) A study of the structure and functions of the national government of the United States. The Constitution of the United States is examined in detail. 11:00. Mr. Seymour.

271. Principles of Sociology. (4 q. hrs.) Social relations and institutions, society as communication, competitive co-operation and functional patterns, spatial structure of society, social change, social disorganization, the person in relation to culture, and the social organization, social control, and social reform. 1:30. Mr. Wood.

281F(53) or 381F(53) or 481F(53) or *581F(53). Field Study of the Regional History of North America. (4 q. hrs.) During the three weeks (August 6 to August 23) there will be a field trip through Northern United States and Southern Canada. A map showing the route of the 1953 field study tour is shown on the inside of the back cover. Undergraduate credit earned in this course may be used as an elective in any curriculum. In some curricula this credit may be substituted for certain required courses. **May be offered toward Group III requirements for the Master's degree and in some instances advisers may approve the work for Group II credit.** A field study fee of \$170.00 is assessed each student. Mr. Miner.

***458. Money and Banking.** (4 q. hrs.) An intensive study of our money and banking systems; their importance to the public welfare; government monetary and banking policy; international exchange problems. **May be taken for credit toward the Master's degree.** 8:40. Mr. Plath.

***474. The Social Problems of Minority Groups.** (4 q. hrs.) A survey of the minority groups in the United States—their history, relationship to other groups, and the problems arising out of discriminatory practices in American society. **May be taken for credit toward the Master's degree.** 9:50. Mr. Wood.

***475. Crime and Juvenile Delinquency.** (4 q. hrs.) A sociological study of the problems of crime and delinquency. Community and school

programs for preventing delinquency and crime are examined. Local community resources are used to bring out the realities of the problems. Of value to the social studies teacher and the school administrator. **May be taken for credit toward the Master's degree.** 7:30. Mr. Wood.

***483. History of Canada.** (4 q. hrs.) The settlement of French Canada. French colonial development. The conquest of French Canada by the British. The change from colonial Canada to the Dominion. Political, economic and cultural growth of Canada as a part of the British Empire. The relationships between Canada and the United States. Emphasis on co-operation between the two countries. **May be taken for credit toward the Master's degree.** 8:40. Mr. Miner.

***491. The Study and Teaching of Local History.** (4 q. hrs.) This course emphasizes the locations and nature of local historical records and remains and their use in teaching history in the public schools. A seminar type course, lectures, student reports, field work in Charleston and vicinity. **Prerequisites:** Social Science 233, 234, 235, or experience in teaching United States History in the junior high school or senior high school. **May be taken for credit toward the Master's degree.** 11:00. Mr. Coleman.

***492. Expansion and Disunion, 1820 to 1861.** (4 q. hrs.) An intensive study of this period of United States History. Major topics covered are Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession. **Prerequisite:** Social Science 233, 234. **May be taken for credit toward the Master's degree.** 9:50. Mr. Seymour.

***494. The Literature of American History.** (4 q. hrs.) A lecture and reading course designed to give the advanced student new understandings and additional skills in the study of American history. A carefully directed reading program for each student provides maximum opportunities for each within his own limits of performance. **May be taken for credit toward the Master's degree.** 11:00. Mr. Alter.

SPEECH

132. Voice and Phonetics. (4 q. hrs.) Instruction and practice in breathing, relaxation, tone production, rhythm, inflection, and enunciation. 9:50. Mr. Ross.

250. Radio Speaking. (4 q. hrs.) Consideration of the special problems involved in adapting the principles of effective speaking to the radio in the composition and delivery of announcements, talks, discussions, newscasts, interviews, and features. Practice afforded in general production and speaking techniques. Voice and program recordings. 1:30. Mr. Johnson.

331. Discussion and Debate. (4 q. hrs.) Principles and participation in class discussions and debates on subjects of current interest. 7:30. Mr. Ewbank.

335. Oral Reading. (4 q. hrs.) Needs of teachers, grade school pupils, and high school pupils are considered. The course includes composition analysis, kinds and levels of meaning, directness, communicativeness, phrasing, inflection, emphasis, climax, melody, rhythm, meter, and bodily responsiveness. Practice is given in the reading of stories, dramatizations, poetry, and non-fiction. 9:50. Mr. Bloom.

345. Public Speaking. (4 q. hrs.) This course gives actual practice in speaking before a group. The problems of choosing subjects, gathering materials, composing speeches, as well as delivering them effectively, are studied. Section I, 8:40. Mr. Ewbank. Section II, 11:00. Mr. Ross.

352. Radio Production Directing. (4 q. hrs.) Problems of casting, selecting sound effects and music, interpretations of script, placing of microphones, timing and engineering of show, and making of transcriptions. Students direct productions. 11:00. Mr. Johnson.

433. Speech Pathology. (4 q. hrs.) This course is prerequisite to all other courses dealing with disorders of speech. A survey is made of the pathology and etiology of articulatory, voice, hearing, stuttering, and organically based speech disorders. A brief description of the treatment of these disorders is presented and the individual psychology of the speech handicapped person is discussed. 8:40. Mr. Buck.

445. Play Production (Directing). (4 q. hrs.) The study and actual production of the play. Central emphasis is placed on directing, beginning with the script and including designing, costuming, make-up, and lighting. 1:30. Mr. Bloom.

***457. Advanced Clinical Practice.** (4 q. hrs.) This course gives actual experience in organizing and conducting speech and hearing surveys. Students are given an opportunity to do supervised work with a variety of speech defective cases. Individual projects are worked on a seminar basis. **Prerequisite:** Speech 433, 434, 435, 456; Education 344, Psychology 451, 455. **May be taken for credit toward the Master's degree.** Hours arranged. Mr. Buck.

***470. Psychology of Speech.** (4 q. hrs.) Psychological principles involved in the acquisition and improvement of speech; the function of speech in the development of an integrated personality; the role of speech in social behavior. **May be taken for credit toward the Master's degree.** 1:30. Mr. Ross.

***560. Deliberation of Human Problems.** (4 q. hrs.) Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems. Includes an evaluation of current practices dealing with contemporary problems. **Open only to graduates.** 11:00. Mr. Ewbank.

SCHEDULE OF COURSES BY HOURS

* Double period classes. See description of courses for second period.

7:30 A. M.

Art 110*, I 130*, 221*
 Biology 127*
 Business Education 111, 112, 210,
 211, 450B
 Chemistry 234*
 Education 343, 345, 487, 581
 English 126, 231, 344
 Geography 130, 221*, 550
 Health Education 120 (I)
 Home Economics 304*
 Industrial Arts 224*, 226*, 580
 Mathematics 120, 450
 Music 229, 451
 Physical Education (Men) 451,
 560
 Physical Education (Women)
 181, 316
 Physical Science 101*
 Physics 130*, 235*
 Psychology 447, 451
 Social Science 148, 234, 256, 475
 Speech 331
 Zoology 125*, 343*

8:40 A. M.

Art 238
 Business Education 120 (I), 248,
 462
 Education 228, 471, 480, 552
 English 237, 343, 453
 Foreign Language—Comp. Lit.
 550
 Geography 120
 Health Education 120 (II), 320
 Library 350
 Mathematics 121, 228
 Music 351, 550, 565
 Physical Education (Men) 347,
 500
 Physical Education (Women) 187,
 192, 352

Social Science 261, 458, 483
 Speech 345 (I), 433
 Zoology 121*

9:50 A. M.

Art 448*, 510*
 Biology 126*, 128 (I)*
 Botany 120*, 122*
 Business Education 110, 450T
 Chemistry 231*
 Education 232, 443L, 481, 490, 550
 English 234, 347, 501
 Foreign Language—Spanish 237
 Geography 454
 Home Economics 201*, 350
 Industrial Arts 150*, 352*, 354*,
 452*
 Library 324
 Mathematics 550
 Music 515, 556
 Physical Education (Men) 226,
 350
 Physical Education (Women)
 191, 234, 317
 Physical Science 100*
 Physics 131*
 Physiology 345*
 Psychology 452
 Social Science 138, 474, 492
 Speech 132, 335
 Zoology 225*, 500*

11:00 A. M.

Art 550
 Botany 232
 Business Education 141, 212, 480
 Chemistry 300, 554
 Education 230, 325, 344, 470,
 575
 English 348, 551
 Geography 447, 453
 Home Economics 347

Industrial Arts 570*
 Mathematics 345
 Music 120, 570
 Physical Education (Men) 244,
 340
 Physical Education (Women)
 186, 286, 460
 Social Science 137, 233, 265, 491,
 494
 Speech 345 (II), 352, 560

1:30 P. M.

Art 100*, 130 (II)*, 224*, 231*,
 520*
 Biology 128 (II)*
 Botany 121*, 550*
 Business Education 120 (II), 490
 Chemistry 132*, 345*
 Education 469, 551, 587, 592
 English 122, 235, 455
 Geography 236*, 555
 Health Education 331
 Home Economics 430
 Industrial Arts 135*, 225*, 336*
 Library 330
 Mathematics 520, 560
 Music 228, 236, 356, 561
 Physical Education (Men) 348
 Physical Education (Women)
 132, 190, 287
 Physical Science 102 (I & II)*

Physics 132*
 Psychology 231, 455
 Social Science 147, 235, 254, 271
 Speech, 250, 445, 470
 Zoology 120*, 231*, 448*

2:40 P. M.

Industrial Arts 451
 Library 120 TTh
 Physical Education (Men)
 Required (I)
 Physical Education (Women)
 180

3:50 P. M.

Physical Education (Men)
 Required (II)
 Zoology 122*, 449*

**Hours of Following Courses
 to Be Arranged**

Art 560
 Botany 445
 Business Education 590
 Chemistry 450
 Home Economics 345
 Library 441
 Applied Music
 Physical Education (Women)
 Rest, Adapted
 Physics 460*, 480*
 Speech 457

DIRECTIONS FOR CORRESPONDENCE

In order to avoid delay in answering inquiries, we are listing below the names of the administrative officers, together with the division of the college work which comes under their supervision.

General Policy of the College

Robert Guy Buzzard, President

Admission of Students, Transcripts, and Requests for Catalogues

Blanche Claire Thomas, Registrar

Academic Work of Students and Advanced Standing

Hobart Franklin Heller, Dean of the College

Housing, Student Employment, and Personal Problems

Rudolph D. Anfinson, Dean of Men

Elizabeth Knight Lawson, Dean of Women

Veterans Services

Rudolph D. Anfinson, Director

Douglas Hall

Donald A. Kluge, Director

Lincoln Hall

Vanlou Patton, Director

Audio-Visual Aids

Arthur Francis Byrnes, Director

Payment of Fees

Raymond Rosco Gregg, Business Manager

Teacher Placement

William H. Zeigel, Director

Teacher Training

Harry Louis Metter, Director

Student Health

Dr. Robert Rodin, College Physician

Mary Ellen Thompson, College Nurse

Textbook Library

Henry Johnson Arnold, Manager

Extension Courses and Field Study Courses

Bryan Heise, Director of Extension and Summer Session

Public Relations and Alumni Services

Stanley Munson Elam, Director of Public Relations and Alumni Services.

NOTICE

It will save your time on Registration Day if you will fill out and return the following pre-registration blank to the Dean of the College. No obligation is implied.

Pre-registered students register at 8 a. m. Others begin registration at 9:30 a. m.

PRE-REGISTRATION

SUMMER 1953

Hour

Course (Department and Course Number)

Name

Address

1953

Laurentian upland of low hills and many lakes

FIELD TRIP



